CONSTRUCTION NEWS

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RAILWAYS.

*(*Denotes that this work is advertised in Engineering News.)*

New York.—New York Central R. R.—Negotiations are in progress between the city, this company and the Grade Crossings Commission for the removal of the present Falls St. Station of the New York Central Co. to the east side of Third St., with train sheds extending along Erie Ave. This would eliminate a number of dangerous grade crossings in the center of the city and would secure the site of the present station for the erection of a new city and county building.

Tennessee.—Cincinnati, New Orleans & Texas Pacific Ry.—This company is planning to double track its line from Cincinnati to Chattanooga, 338 miles. G. Dougherty, Cincinnati, Ohio, is Ch. Engr.

Ohio.—Columbus & Southern Ry.—This company has purchased a large tract at Allensville, Ohio, eight miles northwest of Hamden, where a depot and yards, for the road which is to be extended through Vinton County, will be built.

Ohio.—Plans have been completed for the elimination of a number of grade crossings in Newark, to cost approximately $392,509.

Kansas.—Dodge City & Cimarron Valley R. R.—This company has been organized to construct a line from Dodge City to Colmar, N. Mex. Officers of the Atchison, Topeka & Santa Fe R. R. own all the stock, the line being a cut-off for that railway.

Texas.—Uriah Lott, Corpus Christi, and associates are interested in the organization of a company to promote a system of railways in Texas. The system includes a line from San Antonio to Brownsville and Rio Grande City via Oakville and Kingsville, a branch from Kingsville via Corpus Christi north to Temple and Fort Worth, and a line from Corpus Christi to deep water at Port Arthur on Mustang Island, with several short but important branches. It is estimated that the whole system will be about 900 miles long.

Texas.—Beaumont, Waco & Northern R. R.—This company has been recently incorporated for the purpose of building a line between Beaumont and Waco, a distance of about 200 miles. J. G. Rewes, Beaumont, is Gen. Mgr.

✚Washington.—Great Northern Ry.—A contract has been awarded to COUGREN & WOLDSON, Spokane, at $1,000,000, by this company, for a line from Bluestem to Peach, along the Columbia River, for a distance of 43 miles.

✚California. — Atchison, Topeka & Santa Fe R. R.—The contract for grading the spur track in Temescal Canyon for this company has been awarded to OSCAR FORD, Corona.

Ontario.—Niagara, St. Catherine & Toronto Ry.—It is reported that this company will extend its line from Port Colborne to Fort Erie, early next year, and that the connecting link between the proposed line to Fort Erie and this city will be built before next fall. It is said, also, that plans are under way to build the Canadian Northern R. R. through this city to Buffalo, involving the erection of a new bridge a short distance below the present upper steel arch bridge.

British Columbia.—Canadian Pacific Ry.—This company has made application for a charter for the purpose of constructing a line from a point on the Oyster River to Hardy Bay. Surveys have been made and preliminary contracts entered into by the company. J. G. Sullivan, Winnipeg, Man., is Ch. Engr.

Manitoba.—Canadian Pacific Ry.—This company is contemplating the construction of several new branch lines in the prairie provinces of Western Canada.

Bolivia.—The Chambers has authorized the government to call for bids for the construction of a railroad 108 miles in length, from Quiaca, Argentina, to Tariza, Bolivia.

ELECTRIC RAILWAYS.

(✚Denotes a contract awarded.)

Middleboro, Mass.—The East Taunton Street Ry. Co. plans to build a railway from Middleboro by way of Plympton to Kingston.

Cairo, N. Y.—The Catskill Traction Co. is considering a plan to extend its line from Cairo to East Durham and Oak Hill. W. C. Wood, Catskill, is Gen. Mgr.

Orange, N. J.—The Orange Mountain Traction Co. has applied for a franchise to extend its line over West Christopher, Valley and Christopher Sts. F. Brewer, West Orange, is Gen. Mgr.

Baltimore, Md.—The Baltimore & Pennsylvania Ry. Co. proposes to build a railway from Reisterstown on a line of the United Railways & Electric Co., of Baltimore, 16 miles from the city, to Hanover, Pa., 26 miles from Reisterstown. John Pierce Bruns, 25 Old Builders Exchange, Baltimore, is interested. The Maryland Construction and Development Co., headed by Howard Tebbs of Baltimore, has been organized to build the road, it is reported.

Richmond, Va.—Among the extensions contemplated by the Virginia Railway & Power Co. are the following, an extension on Halifax St. to Hawk St., an extension of the Sycamore St. line to the new viaduct of the Walnut Hill Corporation, and to double-track the entire Port Norfolk & Pinner's Point division. Calvin Whitney, Jr., Seventh and Main Sts., Richmond, is Ch. Engr. of Way. Noted Oct. 19.

Tallahassee, Fla.—A franchise has been applied for by the Palm Beach, Okeechobee & Western Ry. Co., Palm Beach. This is in connection with a plan to build a proposed line between West Palm Beach and Fort Myerson. R. J. Martin is interested, it is reported.

Tampa, Fla.—The Tampa Electric Co. is considering a plan to construct a line to the new Union Station.

Chattanooga, Tenn.—The Chattanooga Traction Co. has applied for a charter to construct and operate a railway in Chattanooga. A franchise has been granted. The construction of interurban lines is proposed, one of which will run through Hamilton and Rhea Counties to Dayton, Tenn., another to Ringgold, Ga., and another up Lookout Mountain. C. F. James, J. L. Davis, Franklyn Harris and D. F. Beckham are interested. Noted Nov. 9.

Louisville, Ky.—A cross town route ordinance is before the General Council and it is reported that Mayor W. O. Head states that the line will be completed by September, 1912. The proposed line will be about five miles long. Louisville now has no cross town route. The Louisville Ry. Co. will probably bid for the franchise which will be offered for sale under the ordinance. Outside interests are also planning to bid, it is believed. Noted Nov. 2.

Bryan, Ohio.—The Toledo & Indiana Traction Co. is planning to extend its line from Bryan to Angola, the eastern terminus of the Bucklen line. H. C. Warren, 408 Superior St., Toledo, Ohio, is Gen. Mgr. and Pur. Agt.

Xenia, Ohio. — The Springfield & Xenia Ry. Co. is considering a plan to build an extension from Xenia by way of Jamestown to Washington C. H. M. Ackerman, Springfield, Ohio, is Gen. Mgr. and Pur. Agt.

Aurora, Ind.—A 9-mile railway between Aurora and Rising Sun is projected. The line will ultimately be extended to Cincinnati and Louisville. Raymond Zeitler is representing New York and Chicago interests.

Boonville, Ind.—The Evansville, Chrisney & Eastern Ry. Co., Evansville, Ind., has contracted for final survey of its proposed route connecting Boonville, Chrisney and Lynnville.

Merrill, Wis.—The Merrill Ry. & Lighting Co. contemplates building an extention to the Sixth Ward addition and to Lake View. The trackless trolley system as used in Leeds, England, is being considered. E. S. King is Pres.

Sheridan, Wyo.—The Sheridan Railway & Light Co. will build a 4-mile extension to the Dietz coal camp.

St. Louis, Mo.—It is stated that St. Louis, St. Charles, Old Monroe, Middletown, Laddonia and Mexico, a distance of 77 miles, will be connected by an electric railway, to be built by the St. Louis, St. Charles & Northern Traction Co. C. B. Duncan, Corso, is Pres.

✚Jonesboro, Ark.—The Jonesboro & Nettleton Interurban R. R. Co., has awarded a contract to HEMINGWAY & CO. to construct a 5-mile line between Jonesboro and Nettleton. J. E. Thompson, Jonesboro, is Vice-Pres.

Texarkana, Ark.—The Texarkana Gas & Electric Co. has secured a bond issue of $5,000 to build an extension from its terminus on Seventh St., Rose Hill, to Westmoreland Heights.

✚Fort Worth, Tex.—The grading contract for a line connecting Fort Worth and Cleburne has been awarded by the Fort Worth Southern Traction Co. to the TEXAS BUILDING CO., Fort Worth. Noted Aug. 24.

Greenville, Tex.—It is announced by A. Ralph Nicholson, who is promoting the construction of an interurban electric railway between Blue Ridge and Gainesville by way of Greenville, about 75 miles, that plans are well advanced. It is expected that construction work will be started about Jan. 1 and that within six months after that time the line will be completed.

Greenville, Tex.—The City Council has granted a franchise to Joseph F. Nichols for the construction of an electric street railway line through the city. This is a part of an interurban railway. Noted Oct. 26.

Pecos, Tex.—The Pecos Valley Southern Ry. Co. has issued $400,000 of first mortgage bonds on 41 miles of its completed line between Pecos and Toyahville, for the purpose of extending its line from Toyahville to Alpine, about 50 miles. It is announced that the construction will be started soon. L. W. Anderson is Engr.

San Antonio, Tex.—A plan to build an interurban railway connecting Austin and San Antonio, via San Marcos, New Braunfels, Kyle, Buda, Hunter and Manchaca, about 81 miles, is on foot. Stone & Webster, 147 Milk St., Boston, Mass., are interested, it is reported.

Reno, Nev.—The Reno Traction Co. will build, in the near future, an extension from Sparks to the Arkell mine in the Wedekind District. Samuel L. Naphtaly, San Francisco, is Gen. Mgr.

Olympia, Wash.—The West Coast Ry. Co. has recently been incorporated and will build an electric or steam line between North Yakima and Seattle to connect with the Oregon-Washington R. R. & Navigation Co. in Kings County. The proposed road will run through Yakima, Kittitas, Pierce and King Counties. Robert Stragorn and A. Smith are the incorporators.

Salem, Ore.—Press reports state that the Portland, Eugene & Eastern Ry. Co. proposes to build a line connecting Salem and Stayton.

Ashland, Ore.—The Oregon-Southern Ry. Co., incorporated in the state of Washington, to construct an electric railway connecting Ashland and Eugene, Ore.

Canby, Ore.—The proposed line connecting Canby and Portland, about 30 miles, is projected by the Willamette & Molalla Valley Ry. Co. At Canby the line will cross the Willamette River over a bridge and from the Tualatin Valley into Portland through a tunnel owned by the company and through a subway to a point on Washington St. From Tualatin a branch will be built to Oregon City, across the Willamette River, and to Abernathy. W. J. Lee, Canby, is Gen. Mgr. Noted Nov. 9.

Alviso, Cal.—Rights-of-way over the two principal streets of Alviso have been granted to the San Jose Terminal R. R. Co., which has announced plans to build an interurban road connecting San Jose and Alviso. The plans call for the immediate beginning of the work, and rights of way are now being secured for the entire twelve miles of line.

San Francisco, Cal.—The Board of Supervisors have set aside $95,000 to pave the right-of-way of the Geary St. municipal railway.

San Jose, Cal.—A franchise has been granted to the San Jose-Almaden R. R. Co. to build and operate a railway by electricity or gas over portions of Almaden Ave. and Almaden Road, Lincoln Ave. and Melone Road. Noted Nov. 2.

Forestville, Cal.—An extension from Forestville to Healdsburg, about 15 miles, will be added to the system owned by the Petaluma & Santa Rosa Electric Ry. Co., it is reported.

Lakeport, Cal.—The Clear Lake Ry. Co. has recently been incorporated, to construct a railway between Lakeport and Hopland, about nine miles.

Modesto, Cal.—The Modesto & Empire Traction Co. has been incorporated to build a railway connecting Modesto and Empire. T. K. Beard, J. M. Walthall, L. L. Dennett and W. H. Frazine are the incorporators.

Sacramento, Cal.—A franchise has been granted to the Sacramento Electric, Gas & Ry. Co., for the construction of a railway on Third, E, K and T Sts. Ornamental iron poles and grooved rails will be used.

LIGHT AND POWER PLANTS.

*(*Denotes that this work is advertised in Engineering News.)*

Portland, Me.—Bids were received on Nov. 18 by James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., for lighting the post-office at Portland, Me., as follows: W. H. Carman, $4,410; M. C. Hutchinson, $5,995; F. E. Wheeler, $5,221; A. L. Dow & Co., $4,760, all of Portland, Me.

South Norwalk, Conn.—A plan to install tungsten lamps to replace the old arc lamp system is contemplated by the Electric Light Commission.

Bolton Landing, N. Y.—The Bolton Light, Heat & Power Co. has been authorized by the Public Service Commission, Second District, to issue $12,500 bonds for extensions and improvements to its plant and system.

New York, N. Y.—Bids will be received at the Department of Education, Park Ave. and 59th St., until 4 p. m., Nov. 27, for installing new boilers in the cellar of Public School, No.

MUNICIPAL IMPROVEMENTS AT COLUMBIA.

By John McNeal, M. Am. Soc. C. E., City Engr.

The past year has been one of activity in municipal improvements at Columbia, S. C., which enjoys the distinction of being the only city in the state governed by a commission. This commission is composed of the Mayor and four councilmen, who have handled the affairs of the city in a thorough businesslike manner and are a credit to the city as well as a recommendation for the Commission Form of Government.

A recent act of the State Legislature provided for the assessment of the cost of street paving by the City upon the owners of abutting property, the city defraying one-half the cost, and awarding the contracts after two-thirds of the property-owners on the street to be paved had presented a petition to the Commission. Other cities which have adopted this method of paying for street paving frequently receive more applications than the available funds will allow them to consider and in this particular, Columbia has not been an exception. The applications now at hand cover more than the City's available appropriations for two years. In addition to defraying one-half the cost of street paving along the abutting properties, the city pays for paving the street intersections and for constructing surface water drains.

The next most important improvement in the city is the construction of a concrete storm water drain, varying in size from 36 to 48 inches. This has just been completed on Gervais St. from Assembly to Pulaski Sts., about half a mile. On completion of the drain the street was paved with vitrified block on a 5-in. concrete base.

Other paving propositions include: The laying of 2,300 lin. ft. of creosoted wood block on a street 64 ft. wide; the laying of 2,600 lin. ft. of bitulithic paving on a concrete base; the awarding of contracts, work to be begun in the spring, for 4,000 lin. ft. of bitulithic paving on Hampton St., which is 50 ft. between curbs.

In addition to the above paving construction, the installation of new gas mains, water mains, and sanitary sewers, are now being completed with the lateral connections running to the building lines of all properties, avoiding street excavations in the future.

37, at 113 East 87th St., Boro. Manhattan. Plans and specifications may be obtained at the office of the Superintendent, at Estimating Room, 9th floor, Hall of the Board of Education, Park Ave. and 59th St. C. B. J. Snyder is Supt. of School Buildings.

Bids will be received by the Commissioner, at the Department of Correction, 148 East 20th St., Borough of Manhattan, until 11 a. m., Nov. 28, for rewiring the kitchen and laundry boys' reformatory, and warden's house on Hart's Island. Further information may be obtained and the plans and drawings may be seen at the office of the Department of Correction, Boro. Manhattan. Patrick A. Whitney is Comr.

New York, N. Y.—Bids will be received by the Fire Commissioner at the Fire Department, 157 and 159 East 67th St., Borough of Manhattan, for installing a complete electric light system in the quarters of Engine Companies No. 33, 42 and 44 Great Jones St., and No. 55, 363 Broome St. Further information may be obtained and plans and specifications may be seen at the office of the Fire Department. Joseph Johnson is Fire Comr.

Lyons, N. Y.—The Rochester, Syracuse & Eastern R. R. Co., is planning to change the location of the power house, because of the construction of the barge-canal. A temporary station will be built north of the present power house. An expenditure of about $40,000 will be made. Ralph Kennard, Brookline, Mass., Electric Engr., is in charge of the work.

Cassandra, Pa.—The Penn Central Light & Power Co. has been granted a franchise to erect transmission lines throughout the borough. D. F. Fradette, 1412 Eleventh Ave., Altoona, is Construction Agt.

Elisabeth, Pa.—The West Penn Electric Co. contemplates building a new plant on the Cheat River, it is reported. C. V. Elliott, Connellsville, Pa., is Ch. Engr.

McKees Rocks, Pa.—The Pennsylvania Light & Power Co. has been granted a franchise to supply electricity in McKees Rocks. Charles Geyer, 124 West Ohio St., Pittsburgh, N. S., Pa., is Pres.

***Pottsville, Pa.**—See item under Miscellaneous Contracts: Hospital Equip., Pottsville, Pa.

Baltimore, Md.—A plant for lighting and heating the City Hall and Courthouse will be installed soon, it is reported, in the high-pressure pipe line station on South St. Cost is estimated at $70,000. H. K. McCay is City Engr.

Chatham, Va.—The Town Council has granted a franchise to F. L. W. Bryant, Thomasville, N. C., to install and operate an electric-light system.

Enfield, N. C.—Bids will be received by W. T. Clement, Mayor, until Dec. 6, for a steam plant to cost $10,000. C. E. Fairbanks, American Bank Bldg., Richmond, Va., is Design Engr.

Lyerly, Ga.—The Georgia Power Co., 144 Edgewood Ave., Gainesville, Ga., is contemplating a plan to erect a transmission line to Lyerly, Summerville, La Fayette and Chickamauga. C. O. Lentz, 71 Broadway, New York, N. Y.

Marshallville, Ga.—See item under Water Supply-Irrigation.

Ragland, Ala.—Franchises for an electric light and power plant, a gas plant, water-works and a street railway have been granted to F. M. Morris by the Board of Aldermen.

Louisville, Ky.—The Campbellsville, Taylor Co. is planning to erect an electric light plant estimated to cost $30,000, to replace one recently destroyed by fire.

Falmouth, Ky.—A municipal electric light plant is proposed.

Cincinnati, Ohio.—Bids were opened on Nov. 20, by the Superv. Arch. of the Treasury, Washington, D. C., for the installation of a heating plant at the Cincinnati post-office, as follows: Peck, Anderson & Peck Co., Cincinnati, $12,617; Fitzpatrick & Hoepfner, Columbus, Ohio, $12,174; J. F. Dalton, New York, N. Y., $11,837; M. H. Crane Estate, Cincinnati, $12,471; H. Niemes, Cincinnati, $13,406; Kirk & Blum, Cincinnati, $12,850.

Convoy, Ohio.—A municipally owned electric light plant is contemplated.

Salem, Ohio.—A bond issue for $20,000 to be used to install an electric distributing system is being considered.

Indianapolis, Ind.—Bids were opened, Nov. 14, by the Supervising Architect, Treasury Department, Washington, D. C., for the installation of air washers and preheaters in the U. S. public building at Indianapolis, as follows: Hayes Bros., Indianapolis, Ind., $7,500; Kauffman Engineering & Heating Co., St. Louis, Mo., $6,137; Thomas & Smith, Chicago, Ill., $6,123; W. H. Johnson & Son Co., Indianapolis, Ind., $7,750.

Chicago, Ill.—Press reports state that an expenditure of $50,000 will be made to install lights on Dearborn St., between Polk and Lake Sts. The Dearborn Street Improvement Association is interested.

Geneva, Ill.—The City Clerk has been authorized to advertise for bids for equipment, including engine, generator and boiler, etc., for the municipal electric-light plant. The approximate cost is $18,000.

La Salle, Ill.—D. W. Mead, Engr., Madison, Wis., was engaged to make an inspection of the municipal electric-lighting plant and recommends, it is stated, that alterations are necessary. Magnetic arc lamps and ornamental lamp standards carrying tungsten lamps for the main streets, two generators and one engine and rewiring will be necessary. The cost of the arc-lamp equipment is estimated at $13,424 and the cost of the incandescent lighting system at $7,700.

✚Janesville, Wis.—The Janesville Electric Co., has awarded a contract to the ALLIS-CHALMERS CO., Milwaukee, for a 500-KW. steam turbine generator, switchboards, and conductor, to be installed in its upper plant.

✚Bouton, Iowa.—A contract has been awarded to JONES ELECTRIC CO., Perry, Iowa, to build an electric light plant and power station.

Corydon, Iowa.—Bids will be received until Dec. 5 by J. J. C. Bower, Town Clk., for the construction of an electric light plant, including boilers, engines, generator and electrical apparatus. The Iowa Engineering Co., Clinton, Iowa, has charge of the engineering work.

Fort Dodge, Iowa.—Plans and specifications for a hydroelectric power plant on Des Moines River, about 15 miles below Fort Dodge, are being prepared by Arnold Engineering Co., Chicago, Ill., it is stated. C Botsford, Des Moines, is interested.

Tioga, Tex.—The Commercial Club is promoting the construction of an electric-light plant, and installation of a sewer system.

Greeley, Colo.—A company has been formed to be known as the Greeley Hydro-Electric Co., and has taken over the electric-power plant located near the Poudre River and used for boring the Laramie-Poudre tunnel. It will utilize 500 HP. available from the Laramie River tunnel flow and the natural flow of the Poudre River to supply electricity in Greeley and surrounding territory. At present the plant has an output of 400 HP. The transmission line will be 70 miles long. It is expected to have the plant completed by April, 1912. D. A. Camfield, F. Abbott, A. J. Condon, D. R. McArthur, W. D. Miller, C. A. Fitch and John Camfield are the incorporators.

Rocky Ford, Colo.—A plan is being considered by H. M. Byllesby & Co., Chicago, Ill., owners of the electric plants at Pueblo, Rocky Ford and La Junta, for the erection of a high-tension transmission line. F. Y. Lowe is Ch. Electrical Engr., of H. M. Byllesby & Co. T. C. Roberts is superintendent of the Pueblo plant.

Phoenix, Ariz.—The erection of a municipal electric-lighting plant has been recommended by James E. Barker, of Los Angeles, Cal., having been retained by the City Council to make an inspection of the present plant and system owned by The Pacific Gas & Elertric Co. The city's contract with this company has expired.

Reno, Nev.—Articles of incorporation have been filed by the Nevada Valley Power Co., for the purpose of building a power plant on the Truckee River to develop 4,000 HP. The directors are A. D. Ayers, H. B. Danforth, and A. A. Smith of Reno. Noted Nov. 16.

***Boise, Idaho.**—See item under Water Supply—Irrigation.

Okanogan, Wash.—See item under Water Supply-Irrigation.

Port Angeles, Wash.—The city will install 200 street series brackets, one 200 light, regulating transformer and switchboard, and possibly three 50 KW. 66,000 to 2200 volt stepdown, transformer. R. M. Toler is City Electrician.

Garfield, Wash.—The Washington-Idaho Light & Power Co., will install a new street-lighting system. The old arc lamps will be replaced with incandescent lamps and the street-lighting system will be extended into the residential section of the city.

Prosser, Wash.—The Pacific Power & Light Co. will erect a high-tension line from Prosser to Ringgold. George D. Longmeier, Prosser, is Local Mgr.

Sedro-Woolley, Wash.—The time for receiving bids for machinery to be installed in the new power plant at the Northern Hospital For The Insane has been extended from Nov. 6 to Nov. 30. Plans and specifications may be obtained at the office of Saunders & Lawton, 1319 Alaska Bldg., Seattle, and at the office of the Builders and Employers' Association, Tacoma, and at the office of John K. Dow, Paulsen Bldg., Spokane. Noted Nov. 2.

Tono, Wash.—The Washington Union Coal Co., a subsidiary of the Oregon-Washington R. R. & Navigation Co., has made an appropriation of $500,000, it is stated, of which $250,000 will be expended for a lighting and power plant.

Portland, Ore.—The Canby Canal Co. is at the head of a project to construct an electric railway from Mollalla Valley to Portland, by way of Canby, about 30 miles. A hydroelectric power plant on the Mollalla River will be built, it is reported. M. J. Lee is Mgr.

Grants Pass, Ore.—Press reports state that a corporation has been formed to erect a hydroelectric power plant on the Coquille River in Coos County, and to build a distributing system. An expenditure of $1,000,000 will probably be made.

Mapleton, Ore.—The installation of a hydroelectric power plant at Swiss Home, on the Siuslaw River, about six miles above Mapleton, is under consideration. Mapleton, Florence, Acme and Glendale will be supplied with electricity. Joaquin Miller, James Miller and George Miller, are interested.

Newberg, Ore.—The Tualatin Valley Electric Co., has been granted permission to erect transmission lines along the county road, between Newberg and Portland, and in an easterly direction from the crossroads, east of Newberg, to the county line.

The Yamhill Electric Co., has been granted permission to erect transmission lines along the road from Dayton to Portland, starting from the corporate limits of Newberg and continuing to the county line, and along other public roads in the vicinity.

Brawley, Cal.—Plans are being prepared by the Bernice Water Co., recently incorporated, to erect a hydro-electric-power plant on the Alamo River. Frank Salisbury and W. H. Best, are the directors.

✚Los Angeles, Cal.—A contract has been awarded to the MERSEREAU BRIDGE & CONSTRUCTION CO., Los Angeles, by the Pacific Light & Power Co., for alterations and improvements to its power plant.

San Diego, Cal.—The San Diego Electric R. R. Co., will soon ask the city for a franchise for laying steam pipes in certain streets to be used for heating purposes.

Napa, Cal.—The Napa Gas & Electric Co. contemplates making improvements to its system. O. E. Clark, Napa, is Local Mgr.

✚Orange, Cal.—The Board of Trustees has awarded a contract to the SOUTHERN CALIFORNIA EDISON CO. for the installation of 100 additional tungsten street lamps. W. L. Boxall, Los Angeles, is Contracting.

✚San Bernardino, Cal.—A contract has been awarded to M. D. FRENCH, Grosse Bldg., Los Angeles, for the erection of 70 miles of pole line, from this city to Riverside, by the Southern Sierras Power Co. The contract price is $159 per mile. McLEAN & FRANCISCO, local men, have been awarded a contract for the delivery of the material for the construction of the 240 miles of transmission line from Bishop Creek to this city, by the same company at $7 per ton where teams can deliver, and $5 additional where it must be packed. In addition to other material there will be 1,440 miles of aluminum cable to transport. The contract will aggregate $40,000.

✚San Francisco, Cal.—A contract for the electrical work in the new hotel and theatre for the Down Town Realty Co., has been awarded to A. E. BROOKE RIDLEY and the METROPOLITAN CONSTRUCTION CO. at $8,462.

St. Mary's, Ont.—Improvements and extensions will be made, by the city, to the electric light system. T. M. Clark is Municipal Clk.

Ixtlan, (Oaxaca post-office) **Mex.**—The Navidad Mining Co., has made application to the department of Fomento of the federal government for a concession to install a hydroelectric plant along the Navidad River near here. A dam across the river and a transmission line from the plant to its mine will be built.

BRIDGES.

(*✚Denotes a contract awarded.*)

Boston, Mass.—It has been proposed to construct a bridge on Western Ave. to connect Boston and Watertown. Estimated cost, $75,000. Louis K. Rourke is Comr. Pub. Wks.

***Fulton, N. Y.**—See "Proposals."

Oswego, N. Y.—The Common Council has granted permission to the New York Central R. R. Co. to erect a railroad bridge across the Oswego River to replace the present structure.

✚Bristol, Pa.—The contract for constructing a concrete arch bridge at Otter St., has been awarded to COSTELLO & CO., Philadelphia, at $5,200.

Allentown, Pa.—Bids will be received by the Board of Commissioners of Lehigh County until 10.30 a. m., Dec. 4, for constructing a reinforced-concrete arch bridge over Mill Creek. J. S. Troxell is Clk.

Brownsville, Pa.—The Commissioners of Fayette and Washington Counties have decided to erect a bridge over the Monongahela River at Brownsville. The estimated cost is $160,000.

Butler, Pa.—A viaduct to connect the north and south sides of the city will be erected along East Wayne St. and Fairview Ave. to Centre Ave. The estimated cost is $90,000.

Petersburg, Va.—The City Council is considering the construction of a concrete bridge to replace Bishop's bridge over the Appomattox River, the cost to be about $30,000.

Parkersburg, W. Va.—A sum of $100,000 has been subscribed for the erection of a bridge over the Ohio River, between Parkersburg and Belpre, Ohio. Noted Oct. 19.

Atlanta, Ga.—We are officially advised that bids will be received until Jan. 15, 1912, for constructing the Bellwood Ave. viaduct. Estimated cost, $66,220. Robert M. Clayton is Ch. of Constr. Noted Oct. 12.

Mobile, Ala.—The Alabama, Tennessee & Northern R. R. Co., Mobile, is asking for bids for a single-track through-plate girder draw-span, Cooper E-50 loading, clear distance for channel 56 ft. K. R. G[illegible]rie, Mobile, is Asst. to Pres.

Louisville, Ky.—M. W. Neal, Vice Chn. Bd. Pub. Wks., is considering plans for building viaducts to eliminate the grade crossings at the intersections respectively of the Louisville & Nashville R. R. with Third Ave. and Fourth Ave. and the Southern Ry. Co. with the same avenues.

***Akron, Ohio.**—The Commissioners of Summit County are considering the construction of a 600-ft. bridge over the Cuyahoga River on the North Howard St. extension. Bonds for $27,000 have been voted. T. D. Paul is County Engr.

✚Cincinnati, Ohio.—The contract for reconstructing the flooring of the Fern St. bridge has been awarded to the BRACKETT BRIDGE CO., at $9,975.

Toledo, Ohio.—Bids will be received by J. Cowell, Dir. Pub. Serv., until Dec. 5, for furnishing materials and constructing a 2-leaf bascule bridge at Cherry St. The estimated cost is $152,000. Noted Nov. 16.

Petersburg, Ind.—Bids will be received by the Board of Commissioners of Pike County until Dec. 5 for constructing five bridges. John D. Gray is County Audr.

Waukegan, Ill.—We are officially advised that plans and specifications have been completed for a bridge to cost $70,000. J. J. Dietmeyer is Supt. Pub. Wks., and M. J. Douthitt is City Engr. Noted Sept. 28.

Des Moines, Iowa.—Preliminary plans are being prepared for a bridge to be erected over the Des Moines River at North St. Estimated cost, $100,000. John Budd is City Engr. Noted Sept. 7.

Preston, Iowa.—Bids will be received by the Board of Supervisors of Union County until 1.30 p. m., Jan. 4, 1912, for county bridge work during the coming year. The estimated cost is $15,000. T. S. DeLay is County Survey.

Minneapolis, Minn.—An appropriation of $30,000 has been made by the Tax Levy Board for constructing a bridge at Crystal Bay. Frank Haycock is County Surv.

Kansas City, Kan.—Plans have been prepared for a reinforced-concrete viaduct to be erected over the railroad tracks at Mill St., and to extend from Muncie Boulevard to Kansas Ave. The estimated cost is $90,000. Otto Anderson is Comr. of Streets.

Cedar Rapids, Neb.—We are officially advised that no contract was awarded Nov. 7 for a bridge over Cedar River, about three-quarters mile north of Cedar Rapids. D. A. Price, Lincoln, Neb., is State Engr. Noted Oct. 26.

Warrensburg, Mo.—Bids will be received by the Board of Supervisors of Blackwater Drainage Dist. No. 1 until Nov. 25 for furnishing material and constructing twelve bridges across the drainage ditch in said district as follows: Four 60-ft. steel spans and four 75-ft. spans on tubular piers; two 50-ft. steel spans and two 75-ft. spans on steel piles or tubular piers. R. J. Groves is Asst. Secy.

De Queen, Ark.—An appropriation of $5,000 has been made to build a bridge across Little River, near Mill's Ferry.

Newport, Ark.—A company has been organized to erect a toll bridge over White River, at Newport. Estimated cost, $40,000. S. Heinemann is interested.

***✚Angleton, Tex.**—The contract for constructing two steel bridges over the Brazos River has been awarded to the MIDLAND BRIDGE CO., Kansas City, Mo., at $100,000. Noted Oct. 19.

La Junta, Colo.—The Commissioners of Otero County have ordered the construction of a 560-ft. reinforced-concrete bridge over the Arkansas River east of La Junta. Estimated cost, $50,000.

Seattle, Wash.—Bids will be received by the Board of Commissioners of King County until 2 p. m., Nov. 28, for construction a 133-ft. pin-connected span with approaches and protections according to plans on file in the office of the County Engineer, Seattle.

Los Angeles, Cal.—The following bids were received by the Board of Public Works for the construction of a reinforced-concrete arch bridge to cross the Arroyo Seco at Ave. 20: Robt. Beryle, (a) for removing the present highway bridge, $600; (b) for sewer and appurtenances, $1,058; (c) reinforcing steel, $2,400; (d) arch centers, $2,700; (e) 767 cu. yds. of class A concrete, $4.70 per cu. yd.; (f) 61 cu. yds. of class B concrete, $7 per cu. yd.; (g) 900 cu. yds. of class C concrete, $5.50 per cu. yd.; (h) 1,282 cu. yds. of class D concrete, $8 per cu. yd.; (i) 42 sq. yds. of cement surface, tool finish, $1 per sq. yd.; (j) 16 sq. yds. of cement surface wash finish, $1 per sq. yd.; (k) 200 tons rip rap, $4 per ton; (l) 11,815 cu. yds. of earth fill, 35 cts. per cu. yd.; (m) 244 foundation piles, $12 each; Mercereau Bridge & Construction Co., (a) $1,600, (b) $1,600, (c) $2,200, (d) $3,000, (e) $5.50, (f) $5.50, (g) $5.50, (h) $5.50, (i) $2, (j) $2, (k) $3, (l) 40 cts., (m) $16; S. M. Kerns, (a) $800, (b) $1,400, (c) $2,200, (d) $2,400, (e) $3, (f) $5.50, (g) $5.50, (h) $5.50, (i) $2, (k) $3, (l) 40 cts., (m) $16. Noted Nov. 9.

✚Fresno, Cal.—A contract has been awarded to R. F. BALL, at $[illegible]000, for constructing four pile bridges across the Kings River sloughs, five miles east of Centerville.

BUILDINGS.

(*Denotes that this work is advertised in Engineering News.)

✠Burlington, Vt.—The contract has been awarded to the WILLIAM S. HAMILL CO., Troy, N. Y., at $70,000 for the construction of a 7-story addition to the Sherwood House.

✠Boston, Mass.—The contract has been awarded to JOSEPH KLEIN, 28 State St., for the construction of a 21 apartment block at 844 Beacon St. Morris Rotur[illegible], 31 Fruit St., is owner.

✠The contract for the large addition to the Castle Square Hotel, to contain 100 rooms, has been awarded to GEORGE E. MITCHELL, 166 Devonshire St., Boston. Chas. E. Sleeper is Mgr.

Construction work will soon start on the construction of 6-apartment block at 580 Blue Hill Ave., Dorchester District, for Bowker & Glazer, 160 Elm St. The cost is $100,000.

A Royal Arcanum building will, in all probability, be erected here. Ernest E. Hobsin is Grand Regent.

✠The general contract has been awarded to WOODBURY & LEIGHTON, 201 Devonshire St., Boston, for the construction of a Y. M. C. A. building on Huntington Ave. Plans were prepared by Shepley, Rutan & Coolidge, Archs. 122 Amase Bldg., Boston.

Great Barrington, Mass.—Plans are being prepared for the construction of a library building. The cost will be about $50,000. William Hall Walker, Brookside, is the doner.

Lynn, Mass.—A municipal building is to be erected on Western Ave. near Breed Sq. Herbert C. Bayard is Comr.

Nahant, Mass.—Bids will be received until Dec. 4 for the construction of a Town Hall. Samuel Hammond is Chn. Bldg. Committee. Andrews, Jacques & Rantoul, 50 Congress St., Boston, are the Archs.

Northampton, Mass.—The Theatre Amusement Co. will erect a theatre on Pleasant St. Samuel Goldstein is Pres.

Springfield, Mass.—A theatre is to be erected on Conway and Main Sts. William A. Davenport is owner. Plans have been prepared by F. A. Norcross, 46 Cornhill St., Boston.

Worcester, Mass.—A 4-story tenement block will be constructed on Green St. for Joseph H. Kelley, and David Shapiro. Plans have been prepared by Edwin T. Chapin, State Mutual Bldg.

A Masonic Temple will be erected on Mower St. The contract for the foundations has been awarded to NORCROSS BROS., 10 East Worcester St. The cost will be about $125,000.

✠Amherst, Mass.—The contract for the fraternity house for the Psi Upsilon Society of Amherst College has been awarded to CASPER RANGER. Putnam & Cox, Boston, are the Archs.

Greenfield, Mass.—Plans have been drawn by F. A. Norcross, Boston, Mass., for a theatre to be erected here for William A. Davenport at Main and Conway Sts. It will be 66 × 115 ft., arranged for two stores and the theatre entrance on Main St. The auditorium will have a seating capacity of 1,200.

✠Springfield, Mass.—The contract for the block to be built at 47 Bradford St. for Paul H. Raffold has been awarded to GEORGE W. CURTIS. Bruno Wozny is the Arch.

Stoneham, Mass.—A school building is projected on Franklin St. in the spring.

Wakefield, Mass.—A theatre, to cost $40,000, is to be built for Charles W. Hodgdon. Harry P. Graves, 40 Middle St., Lowell, is the Arch.

Braintree, Mass.—Competitive plans are desired for the construction of a town hall to be three stories high. Cost, about $75,000. Henry Storm is Chn. Selectmen.

Westfield, Mass.—Plans have been completed by C. A. Tinker for a business block to be erected at Elm and Thomas Sts. for Hearn & Co. It will be of brick, 87 × 134 ft., and four stories.

✠Hartford, Conn.—The general contract has been awarded to McINTYRE & AHERN, and to ROBERT GARVIE for the plumbing, for the residence to be erected on Prospect Ave. for Morgan G. Buckley, Jr. Noted Sept. 14.

✠Contracts for a 5-story brick apartment block on Charter Oak Ave. for Schwartz & Nirenstein have been awarded as follows: Mason work, D. TRAMONTE; carpenter work, S. M. COHEN; steel work, DORFMAN IRON WORKS; cut stone work, KELLY BROS. Burton A. Sellew is the Arch.

New Haven, Conn.—The Second National Bank is planning the erection of a 9-story, brick and steel, fireproof office building; the first two floors will be occupied by its banking rooms. Hoggson Bros., New York, N. Y., are preparing the plans.

Buffalo, N. Y.—The Automatic Transportation Co. will build a warehouse addition to its plant at Main St. and the Erie R. R.

✠The general contract has been awarded to the EASTERN CONCRETE STEEL CO., D. S. Morgan Bldg., for the erection of a theatre and office building for the Shea Amusement Co. at Pearl and Genesee Sts. at $200,000. The subcontract for steel work was awarded to the LACKAWANNA BRIDGE CO.

✠The contract has been awarded to J. H. TILDEN & CO., 14 Henry St., for the erection of a 6-story and basement store and loft building on Washington St. for Charles A. Gould. Plans by James Walker, Builders Exchange. Cost, about $40,000.

Bids for remodeling the Broadway Arsenal of the 65th Regiment for a city convention hall and exposition building aggregated $148,722. The low bidders are as follows: Masonry and carpentry, Wm. F. Felton, $63,989; structural iron and steel work, C. F. Ernst Sons, $58,765; sheet and metal work, Kademacher Bros., $10,548; electric lighting, wiring and fixtures, Buffalo Electrical Contracting Co., $7,500; plumbing and gas fitting, The McGee Co., $7,920.

***Valatie, N. Y.**—The bids received Oct. 25 for two cottages for inmates at the State Farm for Women, Valatie, N. Y., were rejected. New bids will be received by Hon. Jos. F. Scott, Superintendent State Prisons, Capitol, Albany, until noon, Nov. 29. Franklin B. Ware is State Arch., Albany, N. Y. Advertised Nov. 16.

Batavia, N. Y.—A theatre building will be erected here by Rudolph Wagner, Buffalo. The cost will be about $45,000.

New York, N. Y.—Plans have been filed for the erection of a 20-story office building at Fourth Ave. and 26th St. The building will be 98 × 200 ft. and the estimated cost is $900,000. Neville & Bagge are the Archs.

Bids will be received by Joseph Johnson, Fire Comr., 157th and 159th Sts., New York, until 10.30 a. m., Nov. 28, for a new building for an engine and a hook and ladder company on Morris Ave., south of 169th St., Boro. The Bronx; also a new building for a hook and ladder company, on the westerly side of Prospect Ave., north of 152d St., Boro. The Bronx, and for alterations to quarters of Engine Co. 73, adjoining, and building for a hook and ladder company at the southeast corner of Castle Hill Ave. and Ellis Ave., Boro. The Bronx, and for alterations to quarters of Engine Co. 64, adjoining.

New York, N. Y.—Plans have been filed for the theatre that is to succeed the Century Theatre. It will be located at 238 to 242 West 44th St. and will be known as the Little Theatre. Harry C. Ingalls and F. Burrall Hoffman, Jr., 527 Fifth Ave., are the Archs.

A 12-story apartment house will be erected at 562-568 West End Ave. A corporation consisting of S. B. Klee, A. L. Borman and I. H. Kremer is the owner. Architects have not yet been selected.

The Hancock Construction Co., 430 West 119th St., will soon award subcontracts for the construction of a 6-story apartment house at 123d St. and St. Nicholas Ave. The cost will be about $160,000. Plans were prepared by Sommerfeld & Steckler, 31 Union Sq.

Plans have been completed by Schwartz & Gross, 347 Fifth Ave., for the construction of a 10-story apartment house at Amsterdam Ave. and 119th St. The Carnegie Construction Co., 420 West 119th St., is the owner. The cost will be about $450,000.

Bids are being received by Cross & Cross, Archs., 527 Fifth Ave., for the construction of a 12-story apartment house at Park Ave. and 54th St. The Park Avenue & Fifty-Fourth Street Co. is the owner.

New York, N. Y.—Plans have been completed by the Board of Education for a new $750,000 high school in the Bay Ridge section. The site is at 4th Ave., 67th and Senator Sts. The building will be 4 stories high and bids will be asked as soon as working drawings are completed.

New York, N. Y.—A 26-story building will be erected to replace the Western Union Bldg. on the northwest corner of Dey St. and Broadway. Plans are being prepared by William Wells Bosworth, Arch., 527 Fifth Ave. The cost will be about $3,000,000.

✠Poughkeepsie, N. Y.—The Board of Education has awarded the contract to the JOHN O'DONNELL CONSTRUCTION CO., Poughkeepsie, at $47,000 to erect the graded school in Church St. Other bidders are: Lyons Co., $53,800; Silas R. Smith, $54,600; Kelley Co., $54,799; John Leroy, $55,445; John Shaffer, $56,900; Torrington Co., $57,673; Tracy Bros., $59,600.

Schenectady, N. Y.—Plans are being prepared by George Post & Sons, New York, N. Y., for a gymnasium building, 60 × 120 ft., for the Union College to be erected on the College campus. Estimated cost, $100,000.

Syracuse, N. Y.—C. M. Curtiss is preparing plans for a 4-story and basement business block, 101 × 150 ft., brick and terra cotta, at East Genesee and Grape Sts. for J. A. Griffen and others. Estimated cost, $50,000.

Atlantic City, N. J.—Plans are being considered by the city, the Penna. R. R. and the Phila. & Reading R. R. for the construction of a new $2,000,000 railway terminal here. It will occupy land facing Atlantic Ave. on the north side from North Carolina Ave. to Tennessee Ave.

Pittsburgh, Pa.—George Hodgdon & Sons, Archs., have plans nearly completed for a 3-story brick store building to be constructed at Grant St. and Third Ave. for the Marshall estate.

Plans are being prepared for Joseph G. Armstrong, Dir. Pub. Wks. Dept., for a new market house on the Diamond Sq. site.

Bids are being received by Charles Bickel for the construction of a 3-story and ornamental terra cotta hotel, apartment and office building at Federal and East Robinson Sts. for R. H. Boggs. The cost will be about $85,000.

✠An office building will be erected by the Collier Land Co., Forbes and Meyran Sts., Pittsburgh. Plans have been prepared by F. J. Osterling, Arch. The structural steel work contract is held by the AMERICAN BRIDGE CO.

Erie, Pa.—Esenwein & Johnson, 781 Ellicott Square Bldg., Buffalo, have completed plans and are receiving bids for construction of a 9-story and basement hotel, 80 × 195 ft., of steel, stone, brick and terra cotta at Tenth and Peach Sts. The Erie Hotel Co. is the owner. The estimated cost is $600,000.

Philadelphia, Pa.—Plans are being prepared by Cope & Stewardson, Archs., for the erection of a $200,000 graduate school building for the University of Pennsylvania.

Warren, Pa.—The Federation of Masonic lodges here will erect a $200,000 building on the site of the old Y. M. C. A., which building was recently destroyed by fire.

✠Philadelphia, Pa.—Bids have been received by the Department of Public Health and Charities for the construction of a Home for the Indigent on the former Holmesburg race track. Bids were received as follows: The Wayne Contracting Co., $621,000; B. Ketcham's Sons, 1029 Brown St., $662,000; Doyle & Co., $675,000; John R. Wiggins & Co., $692,000; Sax & Abbott, $700,000. James G. Dook & Co., 1420 Chestnut St., $735,077 and Edward Fay & Son, $738,380.

Wilmington, Del.—The I. O. O. F. will build a temple at 10th and King Sts. The estimated cost is $120,000. John T. Thompson, Jr., is the Arch.

Baltimore, Md.—A 5-story warehouse will be constructed at 108 Grant St. by T. G. Pritchard. The building will be 32 × 42 ft.

Baltimore, Md.—The Calvary Evangelical Lutheran Congregation is having plans prepared by John F. Gerwig, Arch., 210 East Lexington St., for the construction of a 1-story and basement church.

Hagerstown, Md.—Plans have been prepared by Mack & Kountz, Hagerstown, for the construction of an apartment and store building. Dury & Meredith are the owners.

✠Washington, D. C.—Bids were received as follows on Nov. 16, by James Knox Taylor, Superv. Arch., Treasury Dept., Washington, for construction of a new building for the Bureau of Printing and Engraving, Washington, D. C.: (a) limestone; (b) granite; Charles McCaul, Philadelphia, (a) $1,299,900, (b) $1,535,900; James G. Doak & Co., Philadelphia, (a) $1,289,400, (b) $1,547,400; William H. Maxwell, San Diego, Cal., (a) $1,272,700, (b) $1,560,700; W. A. Chesterman, Richmond, Va., (a) $1,338,000, (b) $1,686,000; George A. Fuller Co., New York, (a) $1,179,000, (b) $1,440,000; John Gill & Sons, Cleveland, Ohio, (a) $1,265,000, (b) $1,550,000; Conners Bros. Co., Lowell, Mass., (a) $1,366,000, (b) $1,629,000; J. HENRY MILLER, Baltimore, (a) $1,169,447, (b) $1,422,226 (awarded contract); Norcross Bros. Co., Worcester, Mass., (a) $1,360,000; (b) $1,535,486. Woodberry & Leighton Co., Boston, Mass., (a) $1,282,607, (b) $1,535,486. Luke A. Burke & Sons Co., New York, (a) $1,287,000, (b) $1,652,000; Cramp & Co., Philadelphia, (a) $1,294,192, (b) $1,559,817. Noted Oct. 12.

Plans have been completed for a new colored normal school on Georgia Ave. The building will be 200 ft. square and cost $180,000. Bids will be asked soon. Snowden Ashford is the Arch.

✠Richmond, Va.—The contract for the constructoin of a church building for the St. James Episcopal church on West Franklin St., has been awarded to the JOHN T. WILSON CO., at $93,000.

Salem, Va.—Plans are being prepared by Charles M. Robinson, Roanoke, Va., for a 3-story college building for the Roanoke Women's College, Salem. The cost will be about $75,000.

Norfolk, Va.—Plans are being prepared by Granville Temple Snelling, 37 East 30th St., New York, N. Y., for the construction of a hotel building. The cost will be about $150,000. The Norfolk Southern R. R. is the owner.

✠Charleston, S. C.—Thomas R. Waring has awarded the contract for the construction of a 2-story brick residence, 49 × 45 ft., to the CHARLESTON ENG. & CONTG. CO. J. S. Calhoun, Jr., is Supt.

Atlanta, Ga.—William Healey has decided upon plans for the construction of an 18-story office building on Forsyth St.

Athens, Ga.—A school of pedagogy will be erected at the University of Georgia. D. C. Barrow is Pres.

Inverness, Fla.—Bids will be received by the Board of County Commissioners until Nov. 27 for erecting a fireproof court-house. Willis B. Riggers, Tampa, is Arch.

Quincy, Fla.—Plans are being prepared by Hentz & Reid, Atlanta, Ga., for the construction of the proposed court-house here. The cost is estimated at about $50,000.

✠Florence, Ala.—James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., has awarded the contract for the construction of a post-office at Florence, Ala., to BARNES BROS., Logansport, Ind., at $98,800. Noted Nov. 2.

✠Jonesboro, La.—The contract has been awarded to the FALLS CITY CONSTRUCTION CO., Louisville, Ky., for the proposed court-house. The cost will be about $60,000. Stevens & Nelson, New Orleans, are the Archs.

Nashville, Tenn.—A Masonic Temple will be constructed in the central part of the city by the Scottish Rite Masons of the Valley of Nashville and Cumberland Lodge. The probable cost will be $200,000.

Louisville, Ky.—Bids will be received by the Board of Hospital Commissioners, 312 Columbia Bldg., until Jan. 4 for the erection of the Louisville Public Hospital. Plans were prepared by D. X. Murphy & Bro., 140 South Fifth St., Louisville.

Louisville, Ky.—The Sunny Brook Distillery Co. has been granted a permit to erect a brick and steel warehouse at 28th and Broadway, 1 story, to cost $100,000.

Cincinnati, Ohio.—Plans have been completed by Swift & Co. for the erection of a 4-story, 75 × 100-ft. concrete warehouse. Bids will soon be asked.

✠Cleveland, Ohio.—The contract for the erection of a 15-story hotel on Euclid Ave. and East 12th St. has been awarded to the JAMES L. STUART CO., of Pittsburgh, Pa. The estimated cost is $2,000,000.

✠Columbus, Ohio.—C. L. Inscho, Arch., has awarded the contract for the construction of a physicians building on N. High St. for Dr. W. D. Inglis to C. A. SIBLEY. It will be of brick and stone and three stories high.

Akron, Ohio.—At a recent meeting of the Board of Education, Harpster & Bliss, Archs., were employed to prepare plans and specifications for a new school building in the Hart allotment to cost in the neighborhood of $65,000.

Columbus, Ohio.—The Methodist Children's Home Society will erect a $100,000 home, it is reported.

Cleveland, Ohio.—Plans have been completed for rebuilding the central section of The Hollenden, facing on East Sixth St. The portion of the building now standing will be replaced by a modern fireproof structure, nine stories high. The construction will be of steel and concrete, granite walls for the first story, with glazed brick and terra cotta for the walls on the other floors.

Middletown, Ohio.—Plans have been completed by Frank L. Packard, Arch., Columbus, Ohio, for a Carnegie Library building.

Toledo, Ohio.—A 20-story bank building will be erected by the Second National Bank. Plans are being prepared by D. H. Burnham & Co., Archs., 80 East Jackson Blvd., Chicago. The cost will be about $650,000.

Dayton, Ohio.—Bids were received as follows on Nov. 20 by James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., for the construction of a U. S. post office at Dayton, Ohio: (a) limestone, (b) sandstone: Charles McCaul Co., Philadelphia, Pa., (a) $415,911, (b) $428,911; marble, add $87,000; granite, add $100,000; Bedford Stone & Construction Co., Indianapolis, Ind., (a) $454,000, (b) $464,000; marble, add $94,000; Harman Bros., Williamsport, Pa., (a) $430,000, (b) $445,600; marble, add $105,000; R. E. Heningham, New York, N. Y., (a) $435,000, (b) $445,620; marble, add $82,,620; M. Yeager & Sons, Danville, Ill., (a) $467,461, (b) $477,661; marble, add $88,072; Conners Bros. Co., Lowell, Mass., (a) $462,200, (b) $473,000; marble, add $83,000; Dieter & Wenzel Construction Co., Wichita, Kan., (a) $449,000, (b) $547,000; marble, add $95,000; Reaugh Construction Co., Cleveland, Ohio, (a) $479,500, (b) $487,500; marble, add $79,000; granite, add $88,500; Charles W. Gindele Co., Chicago, Ill., (a) $440,000, (b) $450,000; marble, add $85,000; Bailey, Koerner Co., Louisville, Ky. (a) $499,227, (b) $505,909.30; marble, add $109,640; Barnes Bros., Logansport, Ind., (a) $555,000, (b) $600,000; marble, add $90,000.

Urbana, Ohio.—Bids will be received by the Board of Education Nov. 27 for the construction of a school building. Plans and specifications were prepared by Architect Gotwald, Springfield, Ohio.

Arcadia, Ind.—Bids will be received until Nov. 24 by Jacob G. Kepner, Trustee of Jackson Township, for the construction of a high school.

Buffton, Ind.—Dr. F. M. Dickason has completed plans for the construction of a sanitarium and private hospital here.

Brazil, Ind.—Plans have been completed by M. Johnson, Brazil, for the proposed court-house for Clay County. The cost will be about $200,000.

Evansville, Ind.—It is reported that the City Council has taken steps to construct a colosseum. The cost will be about $200,000.

Brazil, Ind.—The Commissioners of Clay County have set Nov. 29 as the date for selecting a plan for a new court-house. Bids will be asked for immediately following the selection.

Elwood, Ind.—Harry J. Milligan, Indianapolis, has ordered plans on which he will receive bids for the erection of a 3-story brick business block. The estimated cost is $60,000.

Evansville, Ind.—The Ohio Valley Seed Co. will soon ask for bids for the erection of a large warehouse on the site of the building recently destroyed by fire.

Indianapolis, Ind.—The trustees of the local Lodge of Elks will ask for bids for the erection of a hotel along lines of the Elks Hotel in New York. The building will be ten stories high with a lodge room occupying the top floor. The estimated cost is $100,000.

Plans have been completed by the Security Trust Co. for the construction of a 7-story bank and office building on East Washington St. B. McBride is Pres.

Laporte, Ind.—John C. & H. W. Richter have ordered plans for the complete remodeling and the construction of an addition to the Teagarden Hotel, including a modern heating system. J. W. Barron is Prop.

Muncie, Ind.—Bids will be received by the Board of Public Works for the construction of an extensive market house as soon as a site is decided on.

Princeton, Ind.—The City Council is considering the erection of a new, modern city hall.

Detroit, Mich.—D. H. Burnham & Co., 80 East Jackson Blvd., Chicago, Ill., have revised plans and will be ready for bids Dec. 1 for the 20-story office and bank building at Griswold and Fort Sts. for the Dime Savings Bank. William Livingston, Hammond Bldg., is Pres. The cost will be $2,000,000.

Pollmar & Ropes, 23 Cleland Bldg., Detroit, will be ready for bids about Dec. 1 for a 4-story and basement hotel building for the Priscilla Hotel Co. J. N. Bagley, Mgr., 881 Jefferson Avenue Bldg. The cost will be about $50,000.

+Flint, Mich.—G. H. Swift, 108 Patterson Bldg., has awarded the general contract for a new 2-story and basement fire station to H. A. DENSTOE, 631 Stone St.

Traverse City, Mich.—W. E. N. Hunter, 1306 Chamber of Commerce Bldg., Detroit, has been commissioned by the Central Methodist Church of Traverse City, Mich., to prepare plans for a new church. The cost will be about $50,000.

Detroit, Mich.—Cowles & Mutscheller, Chase Bldg., Saginaw, are preparing plans and will take figures about Dec. 1 for a 2-story and basement storage plant for the Hammond Standish Co., 737 North Washington St. Cost, about $25,000.

Detroit, Mich.—The Detroit Federation of Women's Clubs will soon erect a clubhouse costing $50,000 on an uptown site.

Chicago, Ill.—Plans have been completed by Vernon W. Behel, Arch., 25 Dearborn St., for the construction of a warehouse at 409 West Huron St. The A. Bauer Construction Co., Franklin and Huron Sts., is the owner. The cost is estimated at $50,000.

A tenement building will be erected at 44th St. and Calumet Ave. Plans have been prepared by Bouchard & France, 155 North Clark St. Sherman T. Cooper, 8 South Dearborn St., is the owner. The cost is estimated at $63,000.

Bids will be received until Nov. 25 by Holabird & Roche 53 West Jackson Blvd., for the construction of a storage and warehouse building at 43d and Robey Sts. Sulzberger & Son, 43d St. and Ashland Ave., are the owners. The cost is about $200,000.

The American Bankers' Life Insurance Co. will erect a $40,000 office building at Ohio and Cass Sts.

It is reported that 25 tenement buildings will be erected at Arthur Ave. by George N. Murray, 4016 North Clark St. The estimated cost is $150,000.

Plans have been completed by A. F. Hussander, 143 Dearborn St., for the addition to the Morse School at Sawyer Ave. The cost will be about $90,000.

+St. Paul, Minn.—The State Board of Control, P. M. Ringdal, Chn., awarded the contract for the construction of two new wings, auditorium, roof house and retaining wall for the main engineering building at the State University to LIBBY & NELSON, 460 Temple Court, Minneapolis, at $56,000. C. H. Johnston, 715 Capital Bank Bldg., St. Paul, is State Arch.

+Minneapolis, Minn.—James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., has awarded the contract for construction of a post-office at Minneapolis to H. M. LEIGHTON CO., Minneapolis, Minn., at $565,537, using granite. Noted Nov. 2.

St. Paul, Minn.—The Minnesota Club, J. J. Watson, Pres., have decided to construct a 3-story brick and concrete, fireproof clubhouse to cost not less than $260,000, including furnishings, at Fourth and Washington Sts. C. H. Johnston is Arch.

+Minneapolis, Minn.—The general contract has been awarded to PIKE & COOK at $398,445 for the construction of a high school at Fourth Ave. and 34th St. Other contracts were awarded to the lowest bidders as follows: Plumbing, sewering and gasfitting, H. KELLY & CO., $18,625; heating and ventilating, J. B. HOUGHES CO., $83,819. Noted Nov. 16.

Kansas City, Kan.—A 5-story reinforced-concrete building with a basement will be erected by the A. Weber Market, at 1113-15 Walnut St. The cost will be about $75,000.

McFarland, Kan.—Plans have been completed by A. T. Hawk, Arch., 139 West Van Buren St., Chicago, for the construction of a hotel.

***Omaha, Neb.**—Bids will be received by the Board of County Commissioners until 11 a. m., Dec. 9, for decorating the new Douglas County Court House. D. M. Haverly is County Clk.

Central City, Neb.—Bids will be received by the Board of County Supervisors until Dec. 12 for the construction of a court-house. Plans by W. F. Garnandt, Fairbury, Neb.

+Omaha, Neb.—The contract has been awarded to GRANT PARSONS for the construction of a 2-story tenement, business and office building at 16th and Cass Sts. H. D. Estabrook is owner. Total cost, about $50,000.

Sioux Falls, S. Dak.—Bids are being received by Reed & Stem, Archs., 600 Endicott Bldg., St. Paul, Minn., for the general construction of a telephone exchange building to be built here by the Northwestern Telephone Exchange Co., of which C. P. Wainman, Minneapolis, Minn., is Gen. Mgr. It will be of brick, 3 stories and 44 × 80 ft. The estimated cost is $25,000.

Princeton, Mo.—Plans will be prepared by Sanneman & Van Trump, Reserve Bank Bldg., Kansas City, for the construction of a $75,000 court-house.

Jefferson City, Mo.—Bids will be received until Dec. 1 by James Cowgill, State Treas., Jefferson City, for the erection of a state capitol. The cost will be about $3,500,000.

+Kansas City, Mo.—It is reported that the contract has been awarded to FRANK P. SMITH for the erection of a new theatre for the Pantages Vaudeville Circuit. The cost will be about $60,000.

St. Louis, Mo.—An 8-story fireproof building will be erected at Locust St., from 23d St. to Jefferson Ave., by Henry Leschen. The cost will be about $1,000,000.

Clarendon, Ark.—It is reported that $118,000 has been appropriated for the construction of a court-house.

Jonesboro, Ark.—James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., has awarded a contract for the construction of a U. S. post-office at Jonesboro, Ark., to M. YEAGER & SONS, Danville, Ill., at $65,193. Noted Nov. 16.

Heber Springs, Ark.—It is reported that the construction of a court-house is proposed. The cost will be about $50,000. J. P. Baker and R. R. Brown are Comrs.

+Kingsville, Tex.—The St. Louis, Brownsville & Mexico R. R. Co. has awarded the contract for the construction of its general office building to the MANHATTAN CONSTRUCTION CO., Kansas City, Mo. The structure will be two stories high of steel and concrete construction and will cost about $60,000.

Houston, Tex.—A 3-story fireproof building will be erected on McKee St. by the Young Women's Co-operative Home Association. The cost will be about $50,000.

San Antonio, Tex.—The Trades Council has completed plans for the construction of a labor temple here, costing $40,000. The building will be three stories high.

+Pueblo, Colo.—The School Board has awarded the contract for the construction of a west wing to the Centennial High School building to A. F. SHERRY at $91,000.

Couer d'Alene, Idaho.—The Idaho Mercantile Co. will rebuild the 3-story building, which was recently destroyed by fire. The cost will be about $150,000. W. E. Sander is Gen. Mgr.

Pasco, Wash.—Bids will be received until Dec. 6 for the construction of a city hall and jail. Plans have been prepared by Lewis Wilson & Co., 661 Empire Bldg., Seattle. The cost will be about $200,000.

Spokane, Wash.—Plans have been prepared for the erection of a brick lodge building on Seventh Ave. and Washington St. for the Knights of Columbus. The cost is about $75,000.

+Merced, Cal.—The Merced Hotel Co. has awarded the contract to F. J. AMWEG, San Francisco, for the construction of a 4-story hotel. The cost will be about $75,000.

Los Angeles, Cal.—George Lowe, Supt. of Construction at the county hospital, has completed plans for the new Los Angeles County Psychopathic Hospital building on the county hospital property on Mission Road. Cost, about $100,000.

Ventura, Cal.—Bids will be received by J. B. McCloskey, Clk. of the Bd. of Supervs., until Dec. 11, for the erection of the general construction work and the marble and tile work for the proposed Ventura County Court House on Polo St.

Los Angeles, Cal.—S. H. Beverforden, Kansas City, Mo., submitted the lowest bid at $44,500 for the erection of a new church building at Eleventh and Cherry Sts. for the German Evangelical Luthern Trinity Congregation. It will be 60 × 106 ft. The plans are from the office of E. E. Meingardus, Higgins Bldg.

San Francisco, Cal.—E. Curtaz, 521 Hayes St., has taken out a permit for the construction of a 5-story Class C brick apartment at Bush and Levenworth Sts. The cost will be about $50,000.

G. Albert Lansburgh, Arch., Gunst Bldg., has been commissioned to prepare plans for a brick and steel apartment house to be erected at Market and Franklin Sts. for Marion Leventritt. The structure will be five stories high and will cost $100,000.

L. H. Sly, First National Bank Bldg., will construct a reinforced-concrete apartment house at California and Powell Sts. Creighton Withers, First National Bank Bldg., is the Arch. The cost will be about $50,000.

Miller & Colmesnil, Lick Bldg., have awarded the contract to LINDGREN CO., Monadnock Bldg., for the construction of a 2-story Class A reinforced-concrete building for James A. Black, on Mission St. The cost will be about $47,500.

Willis Polk, Merchants Exchange Bldg., is preparing plans for a concrete residence, to be erected in Burlingame for H. O. Pillsbury. The cost is estimated at $60,000.

Rifihetti & Headman, Archs., Phelan Bldg., are completing plans and specifications for the construction of a 7-story steel frame hotel building to be erected for Mrs. E. J. Benedect at Taylor and Geary Sts. The exterior construction will be of pressed brick and terra cotta.

+A contract has been awarded by Louis P. Hobart, Arch., Crocker Bldg., for the reinforced-concrete work on a group of buildings for St. Luke's Hospital, to the NORTHERN CONSTRUCTION CO., Mills Bldg., at $62,695.

+Oakland, Cal.—The contract for the construction of St. Paul's Episcopal Church at Bay Pl. and Montecito Ave. has been awarded to the LINDGREN CONSTRUCTION CO., San Francisco, at $69,800.

***San Diego, Cal.**—See "Proposals."

Berthier-en-Haut, Que.—An addition will be constructed to a school here. Plans by Prefontier & Drouin, 55 St. Francois Xavier St., Montreal. The cost is $40,000.

+Vernon, B. C.—The contract has been awarded to T. BURNS, Nelson, B. C., for the construction of a court-house. The cost will be about $174,000.

+Calgary, Alta.—The contract has been awarded to P. LYALL & SONS for the erection of the 9-story Hotel Calgary. The cost will be about $1,500,000.

Calgary, Alta.—The Flesher Marble Co. has filed plans for the erection of a 6-story warehouse on 11th Ave. between Fourth and Fifth Sts. The estimated cost is $50,000.

WATER SUPPLY—IRRIGATION.

(*+Denotes a contract awarded.*)

Dover, N. H.—We are officially advised that the city is considering additions to the water system. William A. Grover is City Engr.

Pittsfield, Mass.—The Special Water Committee in its report to the City Council on Nov. 6 recommended additional pipe lines, including 5,750 ft. of 20-in. mains in William St. and Pomeroy Ave., to cost $27,600, and Pomeroy Ave., East and Fenn Sts., 5,850 ft., $28,080; Taconic, Reed, Elizabeth Sts., 3,850 ft., $18,480, and 12-in. mains in Fenn St., Maplewood Ave., Elm St., 3,550 ft., $10,000.

Boston, Mass.—The Metropolitan Water and Sewerage Board, 1 Ashburton Pl., Boston, is having plans prepared and bids will be asked in about three months for the construction of a water extension system and pumping station for Hyde Park, Mass. Estimated cost, $225,000. Dexter Brackett is Ch. Engr. Bd.

Boston, Mass.—Bids will be received until Nov. 24, by the Public Works Dept. for laying 1,100 ft. of 8- and 12-in. water pipe in three streets in the Dorchester District. Louis K. Rourke is Comr.

Meriden, Conn.—We are officially advised that the city is considering additions to the water system, to cost $10,000. James T. Walsh is Water Comr.

Cortland, N. Y.—The City Engineer will prepare plans for the construction of a concrete-lined reservoir and one mile of 18-in. water mains.

Jamestown, N. Y.—The city, we are officially advised, is considering additions to the water system, including the construction of a reservoir and pipe line. F. O. Anderson is Water Comr.

Yonkers, N. Y.—The Common Council is considering the construction of two additional filter beds and the purchase of a 10,000,000-gal. pump. Estimated cost, $175,000. Campbell Scott is Chn. Joint Water Supply Comn.

New York, N. Y.—See item under Miscellaneous Contracts — Elevators, Etc., New York.

Hackensack, N. J.—The Hackensack Water Co., has decided to lay a 12-in. water main the entire length of Main St., with four 8-in. connections with the 24-in. main along the railroad tracks. Estimated cost, between $35,000 and $40,000.

Elizabeth, N. J.—We are officially advised that the city is considering the construction of a municipal water plant. William Luster is City Engr.

Montclair, N. J.—We are officially advised that the town is considering the purchase of its own source of water supply. George Harris is Chn. Water Com.

Aspinwall, Pa.—No contracts have been let by the city for furnishing material and constructing a concrete reservoir, furnishing and delivering a compound Duplex non-condensing pumping engine, 200 ft. of 8-in. and 2,600 ft. of 6-in. c.-i. water pipe; furnishing and delivering a 35,000-gal. compress water tank. The matter will be taken up again in the spring.

+Springdale, Pa.—The contract has been awarded by the borough to J. L. DICK, of Scottdale, Pa., at $49,003, for the completion of the contract formerly awarded to Thoney Pietro. The work includes the following: 33,[illegible]50 lin. ft. of 10, 8, 6 and 4-in. c.-i. water line; 40 fire hydrants; 500 sq. yds. of reservoir lining; 400 lin. ft. of reservoir fence; 11,000 cu. yds. of grading; 12,700 lin. ft. 12, 10 and 8-in. pipe sewer; 20 manholes; five lampholes; two flush tanks; 30 cu. yds. of concrete abutment. Douglas & McKnight are Engrs., 1709 Union Bank Bldg., Pittsburgh, Pa.

Bethlehem, Pa.—The citizens have voted to issue $175,000 of bonds for the installation of a water supply system. R. E. Neumeyer is Engr., Bethlehem. Noted on Oct. 5.

Warren, Pa.—The Town Council has voted to issue $390,000 of bonds to purchase the water-works system.

***Wilmington, Del.**—See "Proposals."

Washington, D. C.—Bids will be received until 2 p. m., Nov. 27 by the District Commissioners for furnishing and delivering 1,207 gross tons of 8-in. c.-i. water pipe.

Portsmouth, Va.—We are officially advised that the city is considering the construction of a municipal water plant. V. O. Cassell, Jr., is City Engr.

***Charlotte, N. C.**—Bids will be received by the Board of Water Commissioners until 8 p. m., Dec. [illegible], for constructing a pumping building, a suction well and intake, including the laying of about 160 ft. of 36-in. pipe in rock trench. Plans and specifications will be on file at the office of Gilbert C. White, Engr., Charlotte.

+Marshallville, Ga.—The contract has been awarded to J. C. WALKER, of Marshallville, for the construction of a water-works and electric light plant here.

Macon, Ga.—W. P. Bullock, Consult. Engr., Kansas City, Mo., has been engaged by the city to supervise extensions and improvements to the water-works system. The work will include the installation of new pumps, and extending the water mains to recently annexed districts. Estimated cost, $200,000. W. H. Fetner is Chn. Water Comn. Noted on Oct. 12.

Rome, Ga.—We are officially advised that the city is considering additions to the water system, to cost $75,000. W. M. Wilson is City Engr.

Selma, Ala.—We are officially advised that the city is considering extending the watermains. Julien Smith is City Engr.

+Amory, Miss.—Bids were received on Nov. 7 by the Mayor and Council for the construction of water and sewer systems. The work will consist of erecting an elevated tank of 100,000 gals. capacity; two 500-gal.-per-min. motor-driven pumps; one air-lift system; about five miles of mains, 4 to 10 ins. in diameter; deep wells; 58 fire hydrants, valves and valve boxes; about seven miles of sewers, 8, 10, 15 and 18-in. in diameter; 58 manholes; eleven flush tanks. Bids were based on furnishing material and constructing water-works and sewer systems, complete, and for furnishing labor and constructing systems, town to furnish the material for the whole work or any subdivision. The contract has been awarded to SULLIVAN, LONG & HAGGERTY, of Bessemer, Ala., at $54,059. Solomon-Norcross Co. is Engr., Candler Bldg., Atlanta, Ga. Noted on Oct. 19.

Greenville, Miss.—The city has voted in favor of issuing bonds for the installation of a water-works system.

Meridian, Miss.—We are officially advised that the city is considering additions to the water system. C. C. Dunn is Pres. Water Comn.

Georgetown, Miss.—The citizens have voted to issue bonds for the installation of a water-works system.

Morgan City, La.—The citizens, on Nov. 9, voted in favor of issuing $80,000 of bonds for the installation of a water supply system and sewerage.

Loreauville, La.—Bids will be received until Dec. 15 by the Board of Aldermen for the construction of water-works, including tower and tank. This is an extension of date from Nov. 15. Noted on Oct. 19.

***Clarksville, Tenn.**—Bids will be received by the city until 2 p. m., Dec. 4, for the construction of reinforced-concrete sedimentation basins, clear-water reservoir, filter tanks, and a pumping station. S. J. Lowe is Supt. Water Dept. Dabney H. Maury is Consult. Engr. Advertised last week.

Russell, Ky.—Bids will be received until 7.30 p. m., Nov. 23, by the Board of Trustees at the office of the Town Clerk for the construction of a water-works system, including wells, pumping station, reservoir and piping. E. R. Fitch is Chn. Bd.

Madisonville, Ky.—The citizens have voted to issue $75,000 of bonds for the installation of water-works.

Navarre, Ohio.—The citizens on Nov. 7 voted in favor of issuing $25,000 of bonds for water-works improvements. Noted on Oct. 5.

Albany, Ohio.—Bids will be received by John Lindlay, Village Clk., until noon, Nov. 24, for constructing water and fire system. F. R. Baker is Engr., Athens, Ohio.

Tipton, Ind.—We are advised that the city is considering the construction of a water-works system. Estimated cost, $8,000. Arthur C. Herren is Supt. W. Wks.

Newcastle, Ind.—The City Council is asking for bids for remodeling and improving the water-supply system.

Owensville, Ind.—The citizens have voted to build and equip a municipal water-works. Bids will be asked as soon as plans and specifications have been completed.

Peru, Ind.—We are officially advised that the city contemplates additions to the water system. Michael Horan is City Engr.

Sheridan, Ind.—The Sheridan Water & Heat Co., recently incorporated, will soon ask for bids for the construction and equipment of a water-works system and an ice plant. J. L. Vickery is Pres.

Freeport, Ill.—We are officially advised that the city is considering additions to the water system. Charles Hepner is City Engr.

Rankin, Ill.—We are officially advised that J. E. Pickens, Consult. Engr. of Kankakee, Ill., is preparing plans and specifications for the construction of a water-works system here. Estimated cost, about $25,000. Bids will be asked in December.

Chicago, Ill.—The Council Committee on Water Supply on Nov. 14 approved the plan to reconstruct the water system in the stockyards district. The proposed improvements include the following: Rehabilitation of the 22d St. Station, $320,000; Roseland feeder main, $424,000; 47th St. feeder main, $55,000; two engines for Roseland pumping station, $270,000; Western Ave. tunnel, $611,000; Western Ave. pumping station, $1,100,000; Western Ave. feeder mains, $324,720; total, $3,104,720. Frank J. Wilson is Chn. Com.; L. E. McGann is Comr. Pub. Wks.

Bids will be received by L. E. McGann, Comr. Pub. Wks., until Dec. 20, for furnishing and installing three vertical triplex, single-acting pumps, driven by direct-connected, vertical triplex-expansion condensing engines, with auxiliaries, etc., at the Lake View Pumping Station, Montrose Boulevard and Clarendon Ave.

De Kalb, Ill.—Bids will be received by the Water Committee until Dec. 2 for furnishing the material and drilling a deep well.

Peoria Heights, Ill.—The citizens have voted to issue $10,000 of bonds for the installation of water-works.

Rock Island, Ill.—We are officially advised that bids were received by Lt. Col. George W. Burr, Ordnance Dept., U. S. A., Rock Island, as follows on Nov. 17 for the installation of a filtration plant at Rock Island Arsenal, Rock Island, (a) on 3-filter basin, (b) on 2-filter basin, (c) on 2-filter basin: John W. Danforth Co., Buffalo, N. Y., (a) $41,000, (b) $38,700, (c) $31,525 (omitting one fire pump with motor and all connections; drain tiling omitted; ordinary gate-valves with floor stands and operating wheels in lieu of operating tables and provided connections to all outside piping are made by the Government); Pitt Construction Co., Pittsburgh, Pa., (a) $35,800, (b) $33,800, (c) $30,800 in case one complete fire and general service unit including piping is omitted, $33,050 in case reservoir pump and suction pipe are omitted, and wash water pump used in lieu thereof, $33,400 in case system of manifold piping is used, and $33,000 in case wash water pump is omitted and single-stage fire pump used; Pittsburgh Filter Mfg. Co., Pittsburgh, Pa., (a) $37,600, (b) $35,600; on the company's specifications, (a) $39,250, (b) $37,250, (c) $36,450 if Sections 2 and 15 are omitted; $37,650, if strainer system is used as specified in the general specifications; $38,250, should equipment as per Section A of enclosed specifications in place of Section 9 be used; $37,475, should equipment as per Section B be used in place of Section 10; $38,000, should equipment as per Section C, omitting sight glasses from Section 5; N. Y. Continental Jewell Filtration Co., New York, (a) $38,000, (b) $36,000; M. L. Bayard, Philadelphia, Pa., (a) $43,500, (b) $41,500.

***+South Wayne, Wis.**—Bids were received on Nov. 15 by the Village Board for furnishing all labor and material for the construction of a complete water-works system, including deep well, power-house, pumping plant, distribution system, a tower and tank. We are officially advised that the contract has been awarded to J. N. ROHERTY, of Monticello, Wis., at $9,086. Other bidders were: A. L. Maddrell, Monroe, Wis., $10,406; W. H. Carter Cont. Co., Chicago, $9,341; E. T. Sykes, Minneapolis, $9,379; G. W. Leisman, Fort Atkinson, Wis., $9,300; W. Blake, La Crosse, Wis., $9,165. The contract for steel tower and tank was awarded to the CHICAGO BRIDGE & IRON Works, 105th and Throop Sts., Chicago. S. W. Hicks is Engr., Warren, Ill.

Manhattan, Iowa.—We are officially advised that the city is considering additions to the water-works system. George Herman is Supt. Pub. Wks.

Audubon, Iowa.—The citizens have voted in favor of issuing $26,000 of bonds for additions to the water system. Noted on Oct. 5.

Mason City, Iowa.—Bids will be received until 8 p. m., Dec. 12, by J. H. McEwen, City Clk., for a 3,000,000-gal. pump, including condensers.

Bayard, Iowa.—The citizens have voted in favor of issuing $10,500 of bonds for the installation of a water-works system. F. E. Munger is City Clk.

Brainerd, Minn.—The city will receive bids for repairing water-mains until 6 p. m., Nov. 25.

Waseca, Minn.—The town will erect a new steel tank and tower and lay over two miles of water-mains. Bonds for $15,000, have been voted and sold.

Coffeyville, Kan.—We are officially advised that plans are being prepared for additions to the water system. B. L. Jones is Water Comr.

Yates Center, Kan.—The citizens, it is reported, have voted in favor of issuing $35,000 of bonds for purchasing and enlarging the water system.

Fowler, Kan.—Worley & Black, Consulting Engrs., Kansas City, Mo., are preparing plans for the construction of a water-works system here. Estimated cost, $15,000.

Leavenworth, Kan. — Preliminary plans have been completed for the construction of a municipal water system.

+Mound City, Kan.—The contracts for constructing the water-works system here have been awarded by the city to THROGMARTIN, GARDNER & MARTIN, of Ft. Scott, Kan., for construction; filter plant, to PITTSBURGH FILTER MFG. CO., of Pittsburgh, Pa., and pumps, to KANSAS CITY ENGINEERING CO., Kansas City, Mo. The total cost will be $23,645.

Parsons, Kan.—We are officially advised that the city is considering the laying of two miles of 24-in. water main. P. C. Larsen is Water Comr.

+Wilcox, Neb.—Bids were received on Nov. 17, by F. J. Mershon, Village Clk., for the construction of the water-works system. We are officially advised that the contract was awarded to the DES MOINES BRIDGE & IRON CO., of Des Moines, Iowa, at $12,226.

Falls City, Neb.—We are officially advised that the proposed extensions to the watermains will cost $10,000. Noted on Nov. 9.

+Rapid City, S. Dak.—Bids were opened on Nov. 6 by the city for about 5½ miles of 14-in. wooden water pipe. We are officially advised that the contract was awarded to the WASHINGTON PIPE & FOUNDRY CO., of Tacoma, Wash., at $21,995.

Fargo, N. Dak.—Bids will be received until 5 p. m., Dec. 4, for a 6-in. water-main in Tenth St., from First to Second Aves. E. R. Orchard is City Audr.

McClusky, N. Dak.—The City Engineer is preparing plans for the installation of a water-works system.

Malta, Mont.—The Secretary of the Interior has authorized the Reclamation Service to construct an inverted siphon at Peoples Creek, and to extend the dike at that point, in connection with the Milk River Irrigation Project, Montana. The siphon is to take the place of the temporary flume now in use and which is liable to be carried out by breaking ice in the spring. The sum of $8,000 has been allotted for this work. C. P. Williams is Project Engr., Malta.

St. Louis, Mo.—We are officially advised that plans for increasing the distribution service of the water-works system contemplate the following extensions: Distribution mains, 6-in., 38,850 ft.; 12-in., 7,000 ft.; estimated cost, $105,000; 36-in. pump main, 4,870 ft., $55,000; 30-in. distribution main, 12,400 ft., $100,000; 36-in. pump main, 17,630 ft., $300,000; 36-in. connecting pump main, 1,500 ft., $20,000; two 20,000,000-gal. triple expansion pumps, $250,000; remodeling boiler-house, $30,000; changes in settling basins, $60,000; total, $820,000. Edward E. Wall is Water Comr. Noted on Nov. 9.

Independence, Mo.—We are officially advised that no bids were received on Nov. 10 by the village for the installation of the proposed well system. New bids will be asked in the spring.

Pittsburg, Mo.—The City Commission is considering a bond issue for $40,000 for improvements to the water-works system.

Kansas City, Mo.—The Fire and Water Board on Nov. 8 aprpoved the plan of Wynkoop Kiersted, Consult. Engr., for a reinforced concrete tunnel 7-ft. diameter, between Quindaro Pumping Station and Kaw Point for furnishing water to the Turkey Creek Pumping Station. Estimated cost, $100,000.

Mountain Grove, Mo.—The City Council is considering an issue of $25,000 of bonds for the installation of a municipal water-works system.

Clarendon, Ark.—The city will probably award the contract for the proposed water system in December.

Fort Smith, Ark.—We are officially advised that the city is considering additions to the water system. M. H. Reed is City Engr.

Marlin, Tex. — The Water Works Committee of the City Council has recommended that the city purchase the interests and lease of A. R. Wright in the local water-works plant and distributing system and that bonds be issued for $20,000 for enlarging and improving the plant.

Sherman, Tex. — Pumps and other machinery will be installed in the municipal water and light plant here. Harvey McDuffie is Supt.

Fort Worth, Tex.—See item under Miscellaneous Contracts—Levee, Fort Worth, Tex.

Bartlesville, Okla.—The Bartlesville Water Co. of Bartlesville, has been incorporated with a capital of $150,000. The incorporators are: S. W. Swabey, Chicago, Ill.; T. George and John C. Hughes, of Bartlesville.

Afton, Okla.—W. E. Blackwell, Consult. Engr., of Afton, is preparing plans for repairs and extensions to the water-works system. Estimated cost, $10,000.

Worthington, Okla.—The citizens on Nov. 7 voted to issue bonds for $20,000 for the installation of a water-works system.

Inola, Okla.—The town has voted to issue $19,500 of bonds for the installation of a water-works system.

***Muskogee, Okla.**—Bids will be received by the Mayor and City Council until 10 a. m., Dec. 5, for furnishing and erecting a 6,000,000-gal. horizontal high-duty crank and fly-wheel pumping engine, to operate against 320 ft. total head. Specifications can be seen and secured at the office of Alex. Potter, Consult. Engr., 114 Liberty St., New York, or at the office of the City Engineer, Muskogee. E. H. Fleming is Comr. Water and Sewers. Advertised last week.

Oklahoma City, Okla.—We are officially advised that the city is considering additions to the water system. W. H. Hampton is Water Comr.

Fort Collins, Colo.—We are officially advised that the city is considering additions to the water system. About 10,000 ft. of mains will be laid. Ray Baxter is Water Comr.

+Sterling, Colo.—We are officially advised that the WALKER MFG. CO., of Denver, Colo., has secured the contract for the fabrication of the steel comprising 27 steel gates for the intake, branching works and waste-ways on the Prewitt Canal; also eight c.-i. sluice gates for the Prewitt Reservoir. The Prewitt Land & Reservoir Co. project is located near Sterling. J. C. Ulrich, 210 West Second Ave., Denver, is Ch. Engr.

+Denver, Colo.—The contract has been awarded to McKAY & GEDDES, of Denver, for constructing a 60-in. conduit from near Deansbury, Platte Canyon, to Marston Lake, for the Denver Water Co. The conduit will be part of the Denver water supply system, and will complete the connection between the Cheesman Reservoir and Marston Lake. It will have a daily capacity of about 60,000,000 gals. Estimated cost, about $250,000.

+Boulder, Colo.—We are officially advised that the PETER O'BRIAN CONSTRUCTION CO., Nassau Bldg., Denver, Colo., was awarded the contract for constructing the Silver Lake Dam, at $52,196. Fred R. Dugan is City Engr. Noted on Nov. 9.

***Boise, Idaho.**—Bids will be received by the Crane Falls Power & Irrigation Co. for the construction of a dam, power-house and pumping station on the Snake River in Southern Idaho until Dec. 10. Plans and specifications may be seen after Dec. 1 at the offices of Smith, Kerry & Chace, Lewis Bldg., Portland, Ore., and Winch Bldg., Vancouver, B. C., and also at the office of the company at Boise. The company will arrange for its representative to accompany responsible contractors to the site of the works near Mountain Home and Caldwell, Idaho. Estimated cost, $500,000.

Winnemucca, Nev.—The town is considering the installation of a new water plant.

+Mabton, Wash.—The Secretary of the Interior, Washington, D. C., has awarded following contracts in connection with the Mabton Division of the Sunnyside Unit, Yakima Irrigation Project, Washington: To A. L. SMITH, of North Yakima, for the construction of trenches and backfilling involving the excavation of 10,000 cu. yds., at $4,845; to the MIDLAND ENGINEERING CO., of North Yakima, for 4,450 lin. ft. of 25-in. wood stave pipe complete in place, and 3,600 lin. ft. of 29-in. wood stave pipe complete in place; and small concrete and steel structures, at $10,055. Noted on Nov. 2.

Okanogan, Wash.—The Reclamation Service is making an investigation of the feasibility of extending the Okanogan Project in Washington by the addition of two units, both to be irrigated by pumps. One of the units includes 1,100 acres in the present project limits known as Robison Flat and requires a lift of approximately 180 ft.; the other will take in lands in the Colville Indian Reservation. To effect this it will be necessary to construct a power plant on the Salmon River and transmit the power to the various points from which water will be pumped into the canals from Okanogan River. The feasibility of the scheme depends upon the cost and in some measure upon the ability of the Service to dispose of the surplus power which can be developed from its plant. Up and down the Okanogan River are numerous benches which might be irrigated from pumps operated by this power. Ferdinand Bonstedt is Project Engr., Okanogan.

Burns, Ore.—Preliminary surveys and estimates have been made for an irrigation system in the Silvies River Valley near here. Construction work will probably be started in the spring. C. B. McConnell, of Burns, Ore., and O. M. Carter, of Boise, Idaho, are interested.

Los Angeles, Cal.—The Board of Public Service will receive bids until 2 p. m., Nov. 28, for furnishing about 61 tons of Standard bell and spigot c.-i. water pipe with fittings. James P. Vroman is Secy.

San Francisco, Cal.—The F. C. Roberts Co., Sheldon Bldg., San Francisco, has been recommended for award of contract for the construction of a 500,000-gal. tank on Ashbury Heights for the auxiliary high-pressure fire-protection system at $12,350.

Toronto, Ont.—See item under Miscellaneous Contracts—Asphalt, Etc., Toronto, Ont.

Colonia Dublan (Chihuahua) **Mex.**—The Corralitos Cattle Co., is constructing a dam across the river near here and will install pumping machinery for the irrigation of a large tract of land.

SEWERAGE.

(**Denotes that this work is advertised in Engineering News.*)

Salem, Mass.—We are officially advised that the City contemplates the construction of a sewer to cost $20,000 in South Salem. P. J. Kelly is Sewer Comr. and Supt. Pub. Wks.

New York, N. Y.—Bids will be received by George McAneny, Pres. Boro. Manhattan, until 2 p. m., Nov. 27, for furnishing all labor and materials required for altering and improving the sewer in 117th St., between Harlem River and Pleasant Ave.

New York, N. Y.—See item under Streets and Roads.

+Rochester, N. Y.—Contracts for sewer construction have been awarded by the Board of Contract and Supply, as follows: West Ave. sewer, to WHITMORE, RAUBER & VICINUS, Rochester, at $18,569; Parkway Ave. sewer, to THOS. HOLAHAN & CO., Rochester, at $5,320.

+Buffalo, N. Y.—A contract for constructing tile sewers in Cambria St. has been awarded to J. M. FAHNING, at $5,250.

Niagara Falls, N. Y.—The Board of Public Works has received three plans from the City Engineer to lay sewers in Falls St. One is to construct the sewer in the center of the thoroughfare for $85,000; the second to parallel both sides of the street for $95,000, and the third to lay pipes 12 ft. south of the center line, to provide for the reception of underground wires for $155,000. All three propositions have been deferred.

Troy, N. Y.—See items under Streets and Roads.

Whitestone, N. Y.—The Village is considering the construction of a sewer to extend from Fifth Ave. to a point in the Sound, near Malba Dock. Estimated cost, $75,000.

Caldwell, N. J.—The City Council are considering the construction of a sewage disposal plant. Estimated cost, $90,000.

Beaver Falls, Pa.—We are officially advised that plans and specifications have been prepared for a complete new sanitary sewer system. Harry T. Barker is City Engr.

Philadelphia, Pa.—Bids will be received by the Department of Public Works, until noon Nov. 28, for constructing main and branch sewers and the Pennypack disposal plant, according to plans on file with the Chief Engineer. Harry A. Mackey is Dir.

+Pittsburgh, Pa.—A contract for constructing a sewer in Greenwood St. has been awarded to the M. O'HERRON CO., First and McKeon Sts., Pittsburgh, at $5,127.

Springdale, Pa.—See item under Water Supply-Irrigation.

Mobile, Ala.—See item under Streets and Roads.

Amory, Miss.—See item under Water Supply-Irrigation.

Morgan City, La.—See item under Water Supply-Irrigation.

Louisville, Ky. — See item under Bridges.

+Pleasant Ridge, Ohio.—Bids will be received by H. B. Hayden, Vil. Clk., until noon, Dec. 16, for laying 62,746 lin. ft. of sewer pipe, 5,042 ft. of c. i. pipe, and 451 ft. of lock bar pipe; 67,788 ft. of trenching and backfilling; 138 manholes, purification works, etc. The Riggs & Sherman Co., The Nasby, Toledo, Ohio, are Consult. Engrs.

Youngstown, Ohio.—Bids will be received by the Director of Public Service, W. H. McMillin, Clk., until noon, Dec. 1, for constructing a sewer in Kendall Ave. from Glenwood Ave. to Edwards St.

Terre Haute, Ind.—Bids for sewer construction have been received by the Board of Public Works, as follows: College Ave., from 17th to 22nd St., 24-in. pipe sewer; cost estimate, $4,000: Robert Routzahn, $3,320; J. P. Welch, $3,458; P. O'Leary & Sons, $3,745. Tenth St., Oak to Hulman St., 24-in. pipe sewer; cost estimate, $7,000: J. P. Welch, $7,102; P. O'Leary & Sons, $6,999; Ninth St., Maple to Florida Ave., 24-in. pipe sewer; cost estimate, $4,190: P. O'Leary & Sons, $4,162.

Anderson, Ind.—The City contemplates the construction of approximately one mile of from 5 to 7-ft. sewer. Estimated cost, $50,000 to $60,000. H. C. Brown is Comr. Pub. Wks.

Julietta, Ind.—The Commissioners of Marion County, Indianapolis, have ordered plans and specifications for a sewerage system from the Asylum for the Incurable Insane at Julietta and a disposal plant. Albert Sahm is County Audr.

Kendallville, Ind.—Bids will probably be asked early in the spring for constructing a sewer system north of

the tracks of the Lake Shore R. R. Estimated cost, $15,000. W. P. Myers is City Clk. Noted, Nov. 2.

Peru, Ind.—The City is considering the construction of a sewer on Chestnut St. Estimated cost, $23,000.

Bloomington, Ill.—Bids will be received until Nov. 23, for constructing 1,000 ft. of 4-ft. brick sewer. Elmer Folsom is City Engr.

***Glenellyn, Ill.**—Bids will be received by the Board of Local Improvements, until Dec. 1, for furnishing material and constructing a system of sanitary sewers and a sewage purification plant. The Aetna Engineering Bureau, 17 La Salle St., Chicago, are Consult. Engrs. Byron Williams is Pres. of Bd.. Noted, Nov. 9.

Fond du Lac, Wis.—Bids will be received by John F. Hohensee, City Clk, until 3 p. m., Nov. 28, for the construction of a sanitary sewer in Loyd St.

Milwaukee, Wis.—Bids will be received by the Board of Public Works, until 10.30 a. m., Nov. 23, for laying house drains and water connections in various streets. Harry E. Briggs, is Comr. Pub. Wks.

✚Denison, Iowa.—The contract for constructing 9,400 ft. of sewer has been awarded to WILLIAM FITCH, Omaha, Neb., at $4,296. The bids ranged to $7,100. Noted, Nov. 2.

✚Fort Dodge, Iowa.—The contract for constructing a sewer in District 4, has been awarded to W. L. STUART, Fort Dodge, at $5,051.

Manning, Iowa.—Plans have been prepared for a sanitary sewer system for the Town of Manning. P. A. Edquist, Omaha, Neb., is Engr.

Litchfield, Minn.—Preliminary plans for a gravity sewer system are being drawn by L. P. Wolf, Consult. Engr., Essex Bldg., St. Paul, Minn. Estimated cost, $15,000.

Duluth, Minn.—Bids will be asked in about three months for constructing a sanitary main trunk sewer from Austin to Superior Sts., in the Woodland District. Estimated cost, $45,605. R. Murcheson is Clk. Bd. Pub. Wks. Noted Nov. 9.

Atchison, Kan.—Bids will be received about Dec. 4, for constructing approximately 14,500 ft. of from 6-in. to 5-ft. sewers in District K. S. K. McCrary is City Engr.

Aberdeen, S. Dak.—We are officially advised that the City contemplates the construction of a disposal plant two miles from the city and a pipe line connection. W. G. Potter is Engr. in Charge of Sewers.

Kansas City, Mo.—Plans are being prepared by Paul McGeehan, Supt. Sewer Construction, for the balance of the Brush Creek sewer, and bids for its construction will soon be asked.

Sedalia, Mo.—F. T. Leaming, Sedalia, is preparing plans for storm and sanitary sewers and a disposal plant. Estimated cost, $75,000.

Union, Mo.—The Fuller-Coult Co., Chemical Bldg., St. Louis, is preparing plans for pipe sewers. Estimated cost, $10,000. Noted Nov. 9.

Tioga, Tex.—See item under Light, Heat and Power.

✚Denver, Colo.—The contract for constructing sanitary sewers in subdistrict No. 11 of the West and South Side Sanitary Sewer District, has been awarded to the WESTCOTT-DOAN INVESTMENT CO., at $27,785. The other bids were: Dennis Gibbons Construction Co., $35,877; Commonwealth Construction Co., $32,491; Denver-Pueblo Construction Co., $30,053; Dillon Stone Co., $30,924; National Constructon Co., $33,653; Gaffy & Keefe Construction Co., $33,387; Peter O'Brian Construction Co., $33,853; J. R. Gordon, $31,223. Tully Construction Co., $54,536. Noted Oct. 5.

✚Coalinga, Cal.—A contract for sewer construction has been awarded to H. M. SCHAFFER, at $26,317.

✚San Francisco, Cal.—The contract for hauling and laying c. i. pipe for section B of the Ingleside outlet sewer has been awarded by the Board of Public Works to the COAST IMPROVEMENT CO., 68 Post St., San Francisco, at $23,596.

Venice, Cal.—Resolutions have been passed for constructing vitrified pipe sewers in various streets. C. S. Thatcher is City Clk.

Toronto, Ont.—See item under Miscellaneous Contracts; Asphalt, Etc., Toronto, Ont.

GARBAGE DISPOSAL.

(*✚Denotes a contract awarded.*)

Jersey City, N. J.—Bids were recieved as follows on Nov. 13 by the Street and Water Board for the removal of garbage and ashes, (a) removal without separation, (b) for separate removal of garbage and ashes: O'Reilly Bros., (a) $60,000, (b) $62,300; James Conlon & Co., (a) $54,500, (b) $79,000; Thomas Harrington Sons Co., (a) $52,975, (b) $56,975. Bids on the above contract were rejected on a former call and list of bidders noted on Oct. 19.

Philadelphia, Pa.—Bids will be received by Harry A. Mackey, Dir. Pub. Wks., until noon, Nov. 27, for Schedule A, for cleaning streets, alleys, inlets, public market houses and for the removal of ashes, household waste, and rubbish during the year 1912.

Newport, Ky.—The citizens on Nov. 7 voted in favor of issuing $20,000 of bonds for the construction of a garbage plant.

Indianapolis, Ind.—Bids will be received until Dec. 6 by the Board of Public Works for the collection and disposal of garbage from May 26, 1912. Bids for 1 and 6-year periods are asked. Noted on Nov. 16.

STREETS AND ROADS.

(**Denotes that this work is advertised in Engineering News.*)

Boston, Mass.—Bids will be received until Nov. 24. by the Public Works Department for constructing a macadam roadway in Pequot St., Roxbury, and until Nov. 27 for constructing macadam roadway in Mt. Ida Road, Dorchester. Louis K. Rourke is Comr. of Pub. Wks.

Boston, Mass.—The widening of Norfolk St., Dorchester District, has been ordered. Estimated cost, $120,000. Louis K. Rourke is Comr. Pub. Wks.

New Haven, Conn.—Bids for constructing about 5,403 lin. ft. of macadam-telford road, on Whalley Ave., New Haven, were received by the State Highway Commissioner, Capitol, Nov. 17, as follows (a) macadam 18 ft. wide, per lin. ft., (b) macadam 16 ft. wide, (c) telford, (d) macadam per sq. yd., (e) telford per sq. yd., (f) culverts and drainage: Mascetti & Holley, Torrington, Conn., (a) $1.68, (b) $1.50, (c) $2.20, (d) 84 cts., (e) $1.54, (f) $1,600; Robert D. Daley, New Haven, Conn., (a) $1.55, (b) $1.45, (c) $2.20, (d) 70 cts., (e) $1.50, (f) $2,700; Piersen Engineering & Contracting Co., Bristol, Conn., (a) $1.80, (b) $1.60, (c) $2.30, (d) $1, (e) $1.50, (f) $2,460; C. W. Blakeslee & Sons, New Haven, (a) $1.49, (b) $1.38, (c) $2.12, (d) 68 cts., (e) $1.20, (f) $3,100; Charles W. Tryon, Meriden, Conn., (a) $2.05, (b) $1.85, (c) $2.42, (d) 85 cts., (e) $1.30, (f) $1,500.

✚Buffalo, N. Y.—The contract for paving Huron St. from Delaware Ave. to Oak St., has been awarded to the HENRY P. BURGARD CO., at $15,050.

✚New York, N. Y.—We are officially advised that contracts for street improvements were awarded Nov. 10, by George McAneny, Pres. Boro. Manhattan, as follows: paving Terrace View Ave. and 121st St. from Amsterdam to Morningside Ave., with asphalt block to the HARLEM CONTRACTING CO., 2 Rector St., New York, at $10,316, and $4,505, respectively; regulating, grading, curbing and flagging Elwood St., from Nagle to Sherman Ave., to the GODWIN CONSTRUCTION CO., 30 Church St., New York, at $6,549. Noted, Nov. 2.

New York, N. Y.—Bids for street improvements were received Nov. 15, by Maurice E. Connolly, Pres. Boro. Queens, as follows: (a) Hastings Pavement Co., 25 Broad St., (b) Barber Asphalt Paving Co., 30 Church St., (c) Evergreen Construction Co.

Paving with asphalt block on concrete foundation in Elm St., from Ely Ave. to Crescent St., First Ward: (a) $4,526, (b) $4,719.

Paving with asphalt blocks on concrete foundation in Third Ave., from Webster to Graham Ave., First Ward: (a) $15,181, (b) $15,565.

Paving with asphalt blocks on concrete foundation, from Grand Ave. to Flushing Ave., First Ward: (a) $19,872, (b) $20,202.

Regulating and paving with asphalt blocks on present concrete foundation in Ninth Ave., from Jamaica to Grand Aves.; (a) $6,406, (b) $6,475.

Regulating, grading, curbing and paving with asphalt blocks in Anable St., Court St., and public place adjoining the Queens County Court House: (c) $7,155, (a) $7,678, (b) $8,874. Noted, Nov. 9.

New York, N. Y.—Bids will be received by Cyrus C. Miller, Pres. Boro. The Bronx, until 10.30 a. m., Nov. 29, for paving, regulating, grading, etc., and constructing sewers in various streets.

Bids will be received by George McAneny, Pres. Boro. Manhattan, until 2 p. m., Nov. 27, for laying about 17,000 sq. yds. of asphalt pavement, and furnishing about 27,500 lin. ft. B. M., of timber and planking.

Troy, N. Y.—Bids will be received by the Board of Contract and Supply until 11 a. m., Nov. 28, for the labor, services and materials required for paving the alley between Fifth Ave. and Sixth Ave., from Fifth St. to Sixth St.

Bids will be received by the Board of Contract and Supply until 11 a. m., Nov. 28, for the labor, services and materials required in grading, regulating, surfacing and construction of sewers in Mann Ave., from Fourth St. to St. Joseph's St., requiring: Earth excavation, 27,000 cu. yds.; rock excavation, 50 cu. yds.; sewer construction: 400 lin. ft. 12-in. pipe (vitrified drain), 800 lin. ft. 15-in. pipe; 650 lin. ft. 18-in. pipe; 300 lin. ft. laterals (12-in.); twelve catch basins; nine manholes; 4,200 lin. ft. porous tile drain; 1,400 sy. yds. cobble gutter; 4,200 lin. ft. combined curb and gutter (if used); 700 cu. yds. foundry slag; 235 cu. yds. quarry chips and clay; 345 cu. yds. coarse gravel or crushed stone. James M. Riley is Secy.

Yonkers, N. Y.—Bids will be received by the Board of Contract and Supply, James V. Mahoney, Secy., until Dec. 4, for regulating and grading Prescott St., from Yonkers Ave. to Elm St., and for constructing a sewer in Alder St., from Spruce St. south 150 ft. Estimated cost, $40,000.

✚Englishtown, N. J.—The contract for the construction of a stone and gravel road 1⅛ miles long, at Englishtown, has been awarded by the Board of Freeholders to C. F. CUTTINGHAM, Fair Haven, at $7,650. Other bids were: Scott Construction Co., Cranbury, $8,334; I. Walter Butcher, Farmingdale, $7,900; Price and Hafeman, Red Bank, $8,638; J. L. LeCompte, Lakewood, $8,225.

✚Newark, N. J.—Press reports state that contracts for road improvements have been awarded by the Committee on Roads and Assessments of the Essex County Board of Freeholders, as follows: for laying 5,200 ft. of telford pavement on Clinton Ave., to R. C. McMANUS, at $13,380; for laying 8,000 ft. of telford pavement on Lindsley Road, to FRANCISCO BROS., at $21,500. Noted Oct. 26.

Paterson, N. J.—Bids will be received by the Road Committee of the Board of Chosen Freeholders until Nov. 29, for improving the River Road by resurfacing with asphaltic concrete.

Butler, Pa.—See item under Bridges.

✚Philadelphia, Pa.—The contract for laying wood block pavement on Race St. pier has been awarded to the FILBERT PAVING & CONSTRUCTION CO., Pennsylvania Bldg., Philadelphia, at $13,000. Noted Nov. 9.

Wilmington, Del.—We are officially advised that the city is considering the construction of 188,000 sq. yds. of pavement. A. J. Taylor is City Engr.

✚Baltimore, Md.—We are officially advised that a contract for constructing the section of the Annapolis Boulevard between Revell and Boone, about 2.6 miles, was awarded Nov. 15 to GEORGE JEWELL, at $45,443. Noted Nov. 2.

Towson, Md.—Bids will be received by the County Highway Commission, Towson, until Nov. 23, for constructing about 1.14 miles of state-aid highway along the Glencoe Road.

Atlanta, Ga.—See item under Bridges.

Jacksonville, Fla.—About two miles of pavement will be laid in the spring. William Newman is Supt. Pub. Wks. and E. M. Henderson, City Engr.

Pensacola, Fla.—The lowest bid received by the Board of Bond Trustees, Nov. 14, for constructing 180,000 sq. yds. of pavement, and 116,000 lin. ft. of concrete curb, was submitted by the Southern Paving & Construction Co., Chattanooga, Tenn., at $2.08 per sq. yd. for wood block, and $1.95 for brick both on concrete foundation. Noted Oct. 19.

Mobile, Ala.—Preliminary plans have been prepared for paving and constructing storm sewers in Selma St. and Springhill, Ann and Georgia Aves. H. Pillans is Paving Comr., and Wright Smith is City Engr.

Lake Charles, La.—Bids for street improvement were received Nov. 7, as follows: (a) 18,000 lin. ft. of concrete curb, (b) 90,000 sq. ft. of concrete sidewalk; Delatte & Lagrange, Lake Charles, La., (a) 24 cts., (b) 12½ cts.; W. M. Leftwich Co., Nashville, Tenn., (a) 26 cts., (b) 12½ cts.; Southern Asphalt & Construction Co., Birmingham, Ala., (a) 34½ cts., (b) 13 cts.; J. S. Allen, Greenville. Miss., (a) 29 cts., (b) 12 cts.; Kelly, Jones & Allen, Opelousas, La., (a) 34 cts., (b) 12¼ cts.; W. B. Milne, Eddyville, Ky., (a) 28 cts., (b) 13¾ cts. Noted, Oct. 12.

New Orleans, La.—Bids will be received at the office of the Highway Department of the Board of State Engineers, until noon, Dec. 11, for constructing a highway from New Iberia to Jeanerette, a distance of 9½ miles. Gervais Lombard is Act. State Highway Engr.

Memphis, Tenn.—Bids for improving Calhoun Ave., from Main St. to Rayburn Boulevard have been received by the Board of City Commissioners, as follows: E. J. Weatherstrom, $10,684; Roach & Manigan, $10,796; Larkin & Co., $10,560.

Louisville, Ky.—D. F. Lyman, City Engr., is preparing plans for building a 40-ft. carriageway, 4,000 ft. long, on Bardstown Road. Estimated cost, $50,000. The Board of Public Works will advertise for bids in about two weeks.

Cincinnati, Ohio.—Bids will be received by the Board of Commissioners of Hamilton County until noon, Nov. 24, for constructing a concrete culvert on Sycamore Ave. Fred. Dreihs is Clk. of Bd.

Wooster, Ohio.—Bids will be received by the Director of Public Service until noon, Dec. 1, for improving portions of College and Derr Aves. H. F. Crowl is Clk., Dept. Pub. Ser.

Youngstown, Ohio.—Bids will be received by the Director of Public Service until noon, Dec. 1, for paving Carlton St. from Watt to Walnut St. W. H. McMillin is Clk.

Indianapolis, Ind.—See item under Miscellaneous Contracts: Broken Stone, Indianapolis.

Houghton, Mich.—Bids will probably be asked in the spring for constructing about four miles of macadam and 4½ miles of earth road. R. Martin is Highway Engr.

Alton, Ill.—We are officially advised that the City expects to construct about two miles of brick pavement. J. P. Callaghan is Supt. Pub. Wks.

Glencoe, Ill.—We are officially advised that bids for pavi[illegible] Vernon, Railroad and Hawthorne [illegible]s, were received Nov. 14, as follow[illegible] Edw. M. Laing, Highland Park, Ill[illegible]rvia X, $16,623, Pioneer asphalt, $[illegible]3; John A. McGarry, Security [illegible], Chicago, Tarvoid H, $16,748, [illegible]rmudez, $17,477; Davidson & Walt[illegible], Glencoe, Ill., Tarvia, $16,802, Sarco, $[illegible]32, Bermudez $17,994; Jas. Cape & [illegible]ns, Racine, Wis., $16,979; John H[illegible] Sons & Co., Naperville, Ill., Pioneer [illegible]phalt or Sarco, $17,816; C. T. Ed[illegible], Lake Forest, Ill., Pioneer, asph[illegible] $18,999; Western Improvement Co[illegible] Racine, Wis., Sarco, $19,443. Winde[illegible] & Marsh, Winnetka, Ill., are Engrs.

Kankakee, Ill.—Official reports state that the City contemplates paving about five miles of streets. [illegible] D. Grigg is City Engr., and F. H. Holmes is Supt. Pub. Wks.

Mattoon, Ill.—Bids will probably soon be asked for paving five miles of streets. C. L. James is Comr. Pub. Wks.

Rockville, Ill.—We are officially advised that bids will be received Feb. 1, 1912, for laying approximately 30,000 sq. yds. of brick pavement on concrete base. Estimated cost, $60,000. The Aetna Engineering Bureau, Chicago, Ill., are Engrs.

Milwaukee, Wis.—The Board of Public Works expects to award contracts for about 200,000 sq. yds. of bituminous pavement, before April 1. Harry E. Briggs is Comr. Pub. Wks.

Council Bluffs, Iowa.—Bids will probably soon be asked for two miles of paving. E. E. Mininck is Supt. Pub. Wks.

✚Davenport, Iowa.—The contract for paving 38th St. with brick between Seventh and 18th Aves., has been awarded to the TRI-CITY CONSTRUCTION CO., at the following bids: paving, $1.74 per sq. yd.; curb and gutter, 60 cts. per lin. ft.; stone curb, 53 cts. per lin ft.; excavation, 33 cts., per cu. yd; 10-in. sewer, 58 cts. per lin. ft. The only other bid received was submitted by the Independent Construction Co., as follows: $1.77; 62 cts.; 57 cts.; 35 cts.; 52 cts.

Winona, Minn.—Press reports state that bids will be received by the Commissioners of Winona County about Jan. 10, 1912, for constructing approximately 20 miles of macadam road.

Atchison, Kan.—We are officially advised that a contract for paving four streets will be awarded Dec. 4. Victor King is City Clerk.

Independence, Kan.—The city will pave about two miles of streets. From four to ten blocks will be included in each contract. C. L. Wint is Comr. Pub. Wks.

✚Austin, Tex.—The contract for paving the north and south drives around the capitol has been awarded by Dr. A. B. Conley, State Supt. of Public Buildings and Grounds, to the TEXAS BITULITHIC CO., of Dallas, at $2. per sq. yd.

✚Forth Worth, Tex.—A contract has been awarded to the R. C. STUBBS CO., at $1.85 per sq. yd., for paving Wheeler St. and Alston Ave. with vitrolithic.

Houston Heights, Tex.—The Citizens' Committee have retained Howe & Wise Consult. Engrs., Houston, to supervise the construction and reconstruction of roadways in Houston Heights. Estimated cost, $180,000.

Tulsa, Okla.—We are officially advised that the city contemplates the construction of 100,000 sq. yds. of pavement. T. C. Hughes is City Engr., and J. A. Yeager is Paving Comr.

✚Salt Lake City, Utah.—We are officially advised that the contract for constructing curbs, gutters and pavements in Paving Extension No. 68, has been awarded to P. J. MORAN, Salt Lake City, at $95,000. The only other bid received was submitted by Strange & McGuire, at $96,000. Noted, Oct. 26.

Kelso, Wash.—We are officially advised that all bids received Nov. 7, for improving Allen St., have been rejected. New bids will probably be asked in the spring. M. J. Lord is City Clk. Noted, Nov. 2.

✚Bakersfield, Cal.—The contract for raising and reconstructing the Coles Levee Road has been awarded to D. B. MOSHER, at $14,010. Noted, Oct. 26.

✚Hermosa Beach, Cal.—The contract for grading, paving and constructing curbs on Santa Fe and Real Aves., has been awarded to the BARBER ASPHALT PAVING CO., Los Angeles, at 19.4 cts. per sq. ft. for paving, 4 cts. per sq. ft. for oiling, and 55 cts. per lin. ft. for curbs and gutter.

Los Angeles, Cal.—The following bids were received Nov. 6, by the Board of Public Works: for improving Jefferson St. between Western and Second Aves., B. F. Ford (a) 19 cts. per sq. ft. for asphalt paving, (b) 38 cts. per sq. ft. for granite block gutters, (c) 28 cts. per lin. ft. for cement curbs, (d) 27 cts. per sq. ft. for vitrified block gutters, (e) 12 cts. per sq. ft. for sidewalk. Fairchild Gilmore Wilton Co., (a) 19 7-10 cts., (b) 43 cts., (c) 32 cts., (d) 32 cts., (e) 13⅓ cts.; Barber Asphalt Paving Co., (a) 19 4-10 cts., (b) 39½ cts., (e) 12 cts.

For improving Figueroa St. between Washington and Jefferson Sts.: B. F. Ford, (a) 15½ cts. per sq. ft. for asphalt paving, (b) 38 cts. per sq. ft. for granite block gutters, (c) 28 cts. per lin. ft., for cement curb, (d) 27 cts. per sq. ft. for vitrified block gut-

ter; Fairchild-Gilmore-Wilton Co., (a) 17 4-10 cts., (b) 42 cts., (c) 33 cts., (d) 31 cts.; Barber Asphalt Paving Co., (a) 1[illegible] 3-10 cts., (b) 36 6-10 cts., (c) 35 cts., (d) 28 cts.

For improving Alvarado St. between Pico and Hoover Sts., B. F. Ford, (a) 16½ cts., (b) 38 cts., (c) 28 cts., (d) 27 cts.; Fairchild-Gilmore-Wilton Co., (a) 17 6-10 cts., (b) 43 cts., (c) 32 cts., (d) [illegible] cts.; Barber Asphalt Paving Co., (a) 17 4-10 cts., (b) 37 8-10 cts., (c) 3[illegible] cts., (d) 28 cts.

For improving Adams St. from West boundary line of city to Sixth St.: B. F. Ford, (a) 19 cts. per sq. ft. for asphalt paving, (b) 38 cts. per sq. ft. for granite block gutters, (c) 28 cts. per lin. ft. for cement curb, (d) 27 cts. per sq. ft. for vitrified block gutters, (e) 12 cts. per sq. ft. for sidewalk, (f) $3,000 for storm sewers; Fairchild-Gilmore-Wilton Co., (a) 18 4-10 cts., (b) 43 cts., (c) 32 cts., (d) 32 cts., (e) 13½ cts., (f) $2,830; Barber Asphalt Paving Co., (a) 18 2-10 cts., (b) 38 2-10 cts., (c) 35 cts., (d) 28 4-10 cts., (e) 12 cts., (f) $2,694.

For improving Hoover St. between 28th and Jefferson Sts.; B. F. Ford, 16½ cts. per sq. ft. for asphalt paving, 28 cts., per lin. ft. for cement curb and 27 cts. per sq ft. for vitrified block gutter; Fairchild-Gilmore-Wilton Co., 17½ cts., 33 cts. and 31 cts.; Barber Asphalt Paving Co., 21 9-10 cts., 35 cts. and 32 8-10 cts.

For improving alley between Union Ave. and Beacon St.: W. F. Hewitt, 18 cts. per sq. ft. for asphalt, 15 1-10 cts. for concrete paving; M. S. Cummings, 30 cts. and 23 2-5 cts.

For improving first alley east of Lake St. from Ninth to Tenth Sts.: W. H. Hewitt Co., 15 1-10 cts. per sq. ft. for concrete paving; L. A. Bridge & Construction Co., 19½ cts.

Hillsborough, Cal.—Haviland & Tibbetts, Consult. Engrs., Alaska Commercial Bldg., San Francisco, have submitted a report, favoring the construction of about eight miles of oiled macadam highway throughout the City, at an estimated cost of $91,000.

San Francisco, Cal.—The Board of Public Works is considering the widening of a portion of Tomaso St. Estimated cost, $9,000.

Santa Barbara, Cal.—See item under Miscellaneous Contracts: Piling, Santa Barbara, Cal.

Santa Cruz, Cal.—The Supervisors of Santa Cruz County are considering the construction of a road from Santa Cruz, to Watsonville, a distance of 20 miles.

✚Ventura, Cal.—The Board of Supervisors has awarded a contract to HUGH CLARK, Nordhoff, $5,200, for improving one-half mile of Casitas Road. Mesmer & Rice bid $7,200.

Toronto, Ont.—See item under Miscellaneous Contracts: Asphalt, etc., Toronto, Ont.

MANUFACTURING PLANTS.

(*✚Denotes a contract awarded.*)

Bangor, Me.—The Eastern Manufacturing Co. will erect a pulp mill in South Brewer.

West Kennebunk, Me.—Plans are being prepared by F M. Churchhill, 536 Congress St., Portland, for the construction of a factory for the Twentieth Century Amusement & Vending Co. The plant will be twin factories, six stories high.

✚Rochdale, Mass.—The contract for the factory building for E. G. Carleton & Sons has been awarded to E. D. WARD, 82 Foster St., Worcester. It will be 90 × 30 ft., two stories high, wood, mill construction. Sprinklers will be installed. Cutting, Carleton & Cutting, Chase Bldg., Worcester, are Archs.

✚West Springfield, (Springfield postoffice), Mass.—The Fred T. Ley Co., Inc., of Springfield, Mass., and Waterbury, Conn., general contractors for the new plant of the Gilbert & Barker Mfg. Co., have awarded sub-contracts as follows: Steel work, BERLIN CONSTRUCTION CO., Berlin, Conn.; cut stone work, DAVID McCORMICK & SON, Holyoke; lumber, HAMPDEN LUMBER CO., Springfield. Edward H. McClintock, 33 Lyman St., Springfield, is the Engr. Noted July 20, Aug. 10, Sept. 7, Oct. 19 and 26.

Worcester, Mass.—The Worcester Pressed Steel Co. will construct a foundry building on its property here.

✚Ansonia, Conn.—Contracts for a new office building for the Farrel Foundry & Machine Co. on Main St. have been awarded as follows: Mason and carpenter work, the TRACY BROS. CO., Waterbury; concrete work, GARDINER G. RIGGS, Waterbury; cut stone work, THOMAS F. JACKSON, Waterbury; structural steel work, BERLIN CONSTRUCTION CO., Berlin; plumbing, T. P. TERRY & SON, Ansonia; steam heating, LIBBY & BLINN, Hartford; electrical work, E. A. FRANCIS, Hartford. Johnson & Burns, Inc., 26 State St., Hartford, are the Archs. Noted Aug. 10.

✚Bridgeport, Conn.—The contracts for additions to the plant of the Bridgeport Elastic Fabric Co. on Centre St. have been awarded to the S. W. HUBBELL BUILDING CO., Bridgeport; for the mason work and C. A. BJORKLUND for the carpenter work. Bernhardt Doehrer is the Arch. Noted June 29.

New Haven, Conn.—The New York, New Haven & Hartford R. R. will build a $50,000 machine shop here. G. W. Welden, New Haven, is the Mech. Supt.

New Haven, Conn.—Bids are being received for an addition, 136 × 48 ft., to the plant of the New Haven Boiler Works on Saltonstall Ave. The building will be 1-story high of brick and steel.

✚Seymour, Conn.—The contract for the mason work has been awarded to R. J. HALL, Ansonia, and the carpenter work to A. T. PECK, Seymour, for the erection of a factory building of concrete blocks, 50 × 25 ft., three stories high for the H. A. Mathews Mfg. Co. whose plant was recently destroyed by fire. The TRACY BROS. Co., Waterbury, have been awarded the contract for another building of brick mill construction, two stories high, 60 × 122 ft. The BERLIN CONSTRUCTION CO., Berlin, have the contract for the steel truss roofs for both buildings. Noted Oct. 26.

Waterbury, Conn.—Plans are being prepared by James R. Coe, Engr. of the Waterbury Brass Co., for a new casting shop on West Main St. It will be one story high, 65 × 160 ft., of brick and steel, with concrete foundation.

✚CHATFIELD & CHATFIELD, contractors for two factory buildings on Brown St. for the Shoe Hardware Co., have awarded sub contracts for the plumbing, heating and ventilating to M. J. DALY & SONS, Inc., and for the roofing, to the BARLOW BROS. CO., both of Waterbury. Noted Aug. 31, Sept. 14, Oct. 26.

Buffalo, N. Y.—The J. H. Williams Co., Brooklyn, will remove its business to this city and will erect a $1,000,000 plant on property recently acquired.

Lestershire, N. Y.—Plans have been completed by the Endicott Johnson Co. for a shoe factory to be erected at this place. G. F. Johnson is Gen. Mgr.

✚Little Falls, N. Y.—The contract for constructing a 6-story concrete factory building has been awarded to the TURNER CONSTRUCTION CO., 11 Broadway, New York, N. Y., by the Robert Reimer Importing Co. The building will be 63 × 62 ft.

Lyons, N. Y.—Safferson & Weisberg are having plans prepared by J. R. Tyler, Rochester, for a 2-story and basement brick factory to be erected on Geneva St.

Medina, N. Y.—The Monitor Clock Works will build a factory on Main St. Preliminary plans are now being prepared.

Niagara Falls, N. Y. — Wood & Bradney, Mutual Life Bldg., Buffalo, are completing plans for a manufacturing plant for the Niagara Chocolate Co. at Buffalo Ave. and the Hydraulic Canal. The main building will be 75 × 110 ft. with wing 75 × 100 ft., 2-story and basement. Ferd Plate, Gen. Mgr., Gluck Bldg.

New York, N. Y.—Bids will be received by John W. Brennan, Pres. Bd. of Trust., Bellevue Hospital, until Dec. 5, for all labor and materials required for furnishing and installing the laundry machinery and equipment in the new laundry building of the new Bellevue Hospital, situated at 26th to 29th Sts., First Ave. to East River, Manhattan Boro.

New York, N. Y.—Bids will be received by Michael J. Drummond, Comr. Dept. Pub. Charities, East 26th St., until 2.30 p. m., Dec. 5, for furnishing all the labor and materials required for the erection of a brick shop building at the New York City Home for the Aged and Infirm, Blackwell's Island, New York.

✚Weehawken, N. J.—The Robert Reiner Importing Co. has awarded the contract for the construction of a 2-story, reinforced concrete building, 150 × 130 ft., at Hackensack Road and Gregory Ave., to the TURNER CONSTRUCTION CO., 11 Broadway, New York, N. Y.

✚Paterson, N. J.—The contracts for the construction of the Van Vlaanderen mill, to be erected at Broadway and Prospect St., have been awarded as follows: Masonry, A. VER DUIN, at $17,730; carpentry, P. J. RODGERS, at $15,320.

Bayonne, N. J.—The American Radiator Co., Chicago, Ill., will build a plant in Bayonne for the manufacture of radiators. The construction is in charge of the company's engineers in Chicago.

✚Austin, Pa.—The contract for the rebuilding of the mill of the Bayless Paper Co., which was recently destroyed by the flood, has been awarded to WELDON GIBSON, of Goudersport.

Natrona, Pa.—Plans are being prepared by the Pennsylvania Salt Mfg. Co. for the expenditure of $100,000 on its plant. An addition will be made to the power plant, a new office building and laboratory will be built and the muriatic acid department will be reconstructed.

***Pottsville, Pa.**—See item under Miscellaneous Contracts: Hospital Equip., Pottsville, Pa.

Philadelphia, Pa.—Plans have been completed by Carl P. Berger, Arch., 8 Penn Sq. Bldg., for a 9-story reinforced concrete manufacturing plant, to be erected at 510 Race St. for a A. Hartung. The building will be 79 × 130 ft. The estimated cost is $90,000.

The Hellwig Silk Dyeing Co. has purchased a site on the Delaware River and will erect thereon a number of factory buildings. The cost will be $250,000.

Thomas E. Brown & Sons, manufacturers of hosiery, at Second and Westmoreland Sts., are considering the construction of a mill, five stories high.

✚Washington, D. C.—The contract for the construction of a bakery for Cerby Bros. has been awarded to JAMES L. PARSONS, 616 Union Trust Bldg., at $76,480. The structure will be of steel and concrete, three stories high and 144 × 285 ft.

Petersburg, Va.—The Appomattox Iron & Supply Co. is considering erecting a machine shop. The building will be 50 × 222 ft. The estimated cost is $11,000.

Richmond, Va.—A factory will be constructed for Epps & Snider for which plans are being prepared by Charles H. Fisher, Arch., 108 North Ninth St. It will be three stories, 27 × 150 ft., of brick and mill construction and bids will soon be asked.

Louisville, Ky.—The Ford Motor Co. will erect a garage and salesroom here. It will be three stories high, 100 × 150 ft. in size, and of brick construction.

Weiland & Co., automobile agents, are preparing plans for the erection of a fireproof garage and salesroom, 40 × 120 ft., at 217 South Ninth St.

Columbus, Ohio.—Plans are being prepared by Richards, McCarty & Bulford for an 8-story concrete factory building for the G. Edwin Smith Shoe Co., to be erected on Water St.

✚Cleveland, Ohio. — The Chicago Pneumatic Tool Co. has awarded the contract for the construction of a factory on East 49th St., near Lakewood Ave., to EDWARD A. WEILAND.

Corrigan, McKinney & Co. are preparing plans for a plant for the installation of eight 60-ton open-hearth furnaces on the Cuyahoga River.

Mt. Gilead, Ohio.—Plans are being prepared by the American Concrete Metal Flange Co. for the erection of a factory building.

Springfield, Ohio.—Preparations are being made for the erection of a 4-story factory building by the Robbins & Meyers Co. It will be 200 × 60 ft.

Toledo, Ohio.—The McNaul Boiler Mfg. Co. will erect a new plant on Front St., costing $25,000.

The Continental Sugar Co. is considering the erection of a large sugar refining plant on the East Side. An investment of $2,000,000 will be made in the plant and its surroundings.

✚The general contract for the construction of a 1-story, 100 × 100-ft. factory for the Champion Spark Plug Co., has been awarded to H. G. SPICKER CO., 409 Michigan Ave. The estimated cost is $30,000.

Lagrane, Ind.—The St. Joe Valley Ry. Co. will receive bids for the erection of car barns and machine shops on the site of the barns and shops recently destroyed by fire.

✚Detroit, Mich.—The Dequindre Realty Co., Division and Dequindre Sts., Detroit, has awarded the general contract for the 5-story factory bldg., 66 × 141 ft., to W. E. WOOD, 621 Ford Bldg., at $45,000.

✚Kahn & Wilby, Archs., Trussed Concrete Bldg., Detroit, have awarded the contract for structural iron work for the 1-story blacksmith shop, 400 × 70 ft., for Dodge Bros. to JOSEPH CAMPAN, Hanitranick, Mich; structural iron work let to H. B. LEWIS, Ferry Ave. The cost is $30,000.

Detroit, Mich.—Plans are being prepared for the Michigan Steel Casting Co., 248 Guvin St., for the construction of a foundry, 50 × 220 ft. The estimated cost is $25,000.

✚Grand Rapids, Mich.—Pierre Lindhout, 718 Ashland Bldg., has awarded the general contract for the new 2-story factory, 50 × 100 ft., for Silverman Bros., 115 Canal St., to OLDENKAMP BROS., 473 South Fuller St., at $20,000.

Muskegon, Mich.—Vandernest & Pease, Montgomery Bldg., are preparing plans for a 2-story foundry, 100 × 196 ft., to be located near Muskegon. The estimated cost is $30,000.

Menominee, Mich.—J. W. Weels and M. B. Lloyd are interested in the erection of a plant for the manufacturing of wire-weaving machinery. The building will be of steel and concrete, 60 × 200 ft.

Saginaw, Mich.—Cowles & Mutschiller, 1 Chase Bldg., are preparing plans for a new 2-story and basement bakery, 84 × 99 ft. for F. J. Wolfarth, 1305 Genesee St. The cost is estimated at $25,000.

F. W. Hollister, 20 Hamilton Square Bldg., is preparing plans for a 2-story and basement factory addition, 56 × 60 ft., for the Valley Boat and Engine Co., 2624 South Washington St. Architects will be ready for figures about Dec. 1. The estimated cost is $20,000.

The American Wood & Grain Co., T. A. Flockhart, Mgr., East Grand Boulevard and Orleans St., Detroit, are having plans prepared for the rebuilding of their factory, that was recently destroyed by fire. The cost is estimated at $60,000.

The City Concrete & Coal Co., H. H. Holden, Mgr., 1250 Jefferson Ave., are having plans prepared for a 2-story and basement factory, 46 × 80 ft.

Chicago, Ill.—Plans are being prepared by the Chicago Steel Foundry Co. for the erection of a manufacturing plant on their newly acquired land at Kedzie Ave. and 37th St. The foundry building, 150 × 200 ft., and two stories high. The estimated cost is $50,000. Raeder & Wood, 77 Jackson Bldg., are the Archs.

Antigo, Wis.—A new factory building on a larger site is being contemplated by the International Hoist Co., manufacturers of gas engines.

Milwaukee, Wis.—A wash house is to be eercted by the Pabst Brewing Co., on Winnebago St., between Eighth and Ninth Sts., to be 382 × 150 ft., three stories high and will cost $50,000.

Contracts have been let by the Pressed Steel Tank Co., West Allis, for a new shop adjoining the present plant. It is to be 260 × 120 ft., of brick and steel, and will cost $27,000.

Milwaukee, Wis.—The Milwaukee Concrete Mixer & Machinery Co. has purchased a large plant and have also purchased machinery for the same.

Plymouth, Wis.—The Plymouth Brewing Co. is erecting a bottle house at Main and Milwaukee Sts. It will be 100 × 41 ft., and equipped with modern machinery. J. E. Curtis is in charge.

Sioux City, Iowa.—The Stickley-Hunter Gas Engine Co. will build a factory here. The building will be 50 × 100 ft., and two stories high. It will be of brick construction.

Kansas City, Mo.—The erection of a steel foundry here is being considered by the American Dartium Steel Casting Co.

St. Louis, Mo.—The Koken Barber Supply Co. will erect a 6-story factory at Texas Ave. and Sydney St. It will be 110 × 145 ft.

El Paso, Tex. — The Blumenstein Chemical Works of Pottsville, Pa., will erect a factory here, to manufacture powder and cartridges. The estimated cost is $100,000.

Salt Lake City, Utah.—Assurance has been given by the directors of the Griffin Car Wheel Co., that the company will erect a plant here about the first of the year.

Portland, Ore.—A factory, costing $100,000, will be erected here by the Universal Wrench Co., 525 Henry Bldg.

✚San Francisco, Cal.—The contract for the structural steel work for a 2-story brick and concrete factory building for George E. Bennett, at Tenth and Folsom Sts., has been awarded to the CENTRAL IRON WORKS, 651 Florida St., at $10,500. Kidd & Anderson, 251 Kearny St., are the Archs.

San Francisco, Cal.—The Union Iron Works Co., 311 California St., has awarded a contract to THOMAS H. DAYS SONS, Monadnock Bldg., for all work, except the structural steel work, for a plate yard and iron structural shop and ship foundry to be erected at Rotrero at a cost of $100,000. Plans were prepared by J. P. Fraser, Engr.

✚San Diego, Cal.—The contract for the construction of a group of factory buildings for the Savage Arms Co. has been awarded to G. W. BELL, Monrovia. Quale Bros. are the Archs.

Porterville, Cal.—The Brisco Iron Works will erect a plant for the manufacture of deep well pumps.

Los Angeles, Cal.—The Union Ice Co., 660 South Alameda St., is having plans prepared for the construction of a group of buildings of cement block construction to be erected at Colegrove, to be used as an ice plant.

Plans are being prepared by A. B. Sturgis, Arch., Story Bldg., for a reinforced-concrete gun factory for the Clive Arms Mfg. Co. The structure will be 150 × 150 ft.

Fort William, Ont.—Frank V. Samuel, Guelph, is interested in the organization of a company for the manufacture of wrought-iron and steel pipe.

Windsor, Ont.—The American Blower Co., Detroit, will erect a plant here. An erecting shop, 50 × 200 ft., of steel and concrete, and a foundry, will be constructed.

Toronto, Ont.—The Standard Silver Co., manufacturers of electro-plated ware, is erecting a 5-story factory on its property here. The company is interested in the purchase of modern mechanical equipment.

Colonia Dublan (Chihuahua), **Mex.**—The Southwestern Sugar Co. is considering the erection of a large factory for the manufacture of beet sugar.

MISCELLANEOUS CONTRACTS.

(**Denotes that this work is advertised in Engineering News.*)

U. S. RECLAMATION SERVICE.—All news concerning canal and irrigation projects, etc., will be found under Water Supply—Irrigation.

Subway.—Boston, Mass.—A subway for pedestrians on Winter St., also on Washington St., from Eliot to Franklin Sts., is being considered. Louis K. Rourke is Comr. Pub. Wks.

Wall and Fence.—Boston, Mass.—Bids will be received until Nov. 24 by the Public Works Department for constructing a retaining wall and fence on Amory St., Roxbury District. Louis K. Rourke is Comr. Pub. Wks.

Stable.—Newport, R. I.—Bids were received as follows on Nov. 18, by the Bureau of Yards and Docks, Navy Dept., Washington, D. C., for the construction of a stable at the Naval Station, Newport: James A. Monroe, North Attleboro, Mass., (1) $6,415, (2) $6,100, (3) $6,215, (4) $6,945, (5) $25, (6) $55 (7) $50; Darling & Slade, 52 Bridge St., Newport, (1) $5,145, (2) $4,665, (3) $4,889, (5) $36, (6) $100, (7) $90; John J. Fitzpatrick & Sons, Plattsburg, N. Y., (1) $6,497, (2) $5,994, (3) $6,297, (4) $5,844, (5) $90, (6) $75, (77) $60; Noel Construction Co., 79 Milk St., Boston, (1) $6,052, (2) $5,627, (3) $5,684, (4) $5,762 (5) $80 (6) $25, (7) $20.

+Metallic Furniture.—New York, N. Y.—Bids were received on Nov. 13 by William S. Andrews, Comr. of Records of New York County, for metallic case sections and bases, metallic desk sections and desks or stands, and metallic curtain cases and bases, for the office of the County Clerk in the New York County Court House. The contract, we are officially advised, will be awarded to the VAN DORN IRON WORKS, 150 Nassau St., New York, at $37,113. Other bidders were: General Fireproofing Co., $37,500; Canton Art Metal Co., $47,893; George W. Cobb, Jr., $52,750; Art Metal Construction Co., $48,676.

Dredging.—New York, N. Y.—Bids were received as follows on Nov. 13 by Col. S. W. Roessler, Corps Engrs., U. S. A., New York, for dredging in Hempstead Harbor (L. I.), N. Y.: Coastwise Dredging Co., Norfolk, Va., 18¾ cts. per cu. yd.; P. Sanford Rose, Inc., Jersey City, N. J., 35¾ cts.; Randerson & Miller, 34½ cts.; J. S. Packard Dredging Co., 34 9-10 cts.; Maritime Dredging Co., 37½ cts.

Wall.—New York, N. Y.—Plans have been completed by engineers of the Departments of Parks, for the reconstruction of 2¼ miles of "Speedway" wall along the Harlem River. Charles B. Stover is Pres.

Repairs to Ferryboats.—New York, N. Y.—Bids will be received until noon, Nov. 29, by Calvin Tomkins, Comr. of Docks, for Contract No. 1304, for all labor and materials necessary for repairs to the municipal ferryboat, "Bronx," and Contract No. 1305, for repairs to municipal ferryboat, "Manhattan."

Miscellaneous Supplies.—New York, N. Y.—Bids will be received by Henry S. Thompson, Comr. Water Supply, Gas and Electricity, until Nov. 29, for furnishing and delivering the following miscellaneous supplies: Belting, builders' hardware, machinery and parts thereof, materials of construction, lumber, brick, metals and alloys, miscellaneous nails, washers, bolts, nuts, rivets, etc., pipes, valves and pipe fittings, tools and implements, etc.

+Elevators, Etc.—New York, N. Y.—The contract has been awarded to the ROBERT WETHERELL MACHINE & ENGINE CO., of Chester, Pa., for engines, pumping machinery and elevators for the McAlpin Hotel, Fourth Ave. and 31st St., New York, at about $250,000.

***Dredging.**—New York, N. Y.—Bids will be received until noon, Dec. 15, by Col. W. M. Black, Corps Engrs., U. S. A., for dredging and rock removal in Westchester Creek, N. Y.

+Door-Operating Devices.—New York, N. Y.—The contract for installing pneumatic devices in connection with the elevators in the U. S. post-office here, has been awarded to the OTIS ELEVATOR CO., 17 Battery Pl., New York, at $34,000.

***Sand-Handling Machinery.** — Peekskill, N. Y.—Bids will be received until Dec. 1, by the National Sand & Development Co., Peekskill, for the installation of excavating, crushing, screening and washing plant for handling its sand. George H. Rice is Secy. Noted on Nov. 16.

Subway.—Allentown, Pa.—The Lehigh Agricultural Society is considering the construction of a subway under its race-track. H. B. Schall is Secy., Stiles Bldg., Allentown.

***Dock.**—Philadelphia, Pa.—Bids were received on Nov. 20 by Joseph F. Hasskarl, Dir. Dept. Wharves, Docks and Ferries, for constructing the Dock St. pier. The lowest bid, we are officially advised, was submitted by Butler Bros. Construction Co., 1170 Broadway, New York, at $267,000.

***Hospital Equip.**—Pottsville, Pa.—Bids will be received by the County Comptroller, until noon, Dec. 12, for the following contracts, for hospital equipment: (g) for a refrigerating plant; (h) for the refrigerators; (i) for furnishing and installation of kitchen, bakery and pantry apparatus and cooking utensils; (j) for laundry machinery and appliance; (k) for a common battery private telephone exchange, wiring, conduit, etc.; (l) for a vacuum cleaning equipment; (m) for hospital equipment and auxiliary apparatus; (n) for iron beds, springs, mattresses and pillows; (o) for wood office furniture, etc.; (p) for electric light fixtures, etc.; (q) for an electric time clock system, wiring and conduit, etc.; (r) for a complete fire alarm signal system, etc.; (s) for the construction of a fire-proof vault, lining, and steel security locker, etc.; (t) for steam sterilizer equipment and construction, etc.; (u) for additional electric lighting of rear porches and changed lighting of male and female sick wards, etc.; (v) for additional elevator complete, etc.; (w) for extra brickwork and plastering, etc.; (z) for window and skylight shades, rollers, etc., labor and materials complete. Charles T. Stroughn is County Comptroller.

+River Work.—Scranton, Pa.—The Delaware & Hudson R. R. Co., has awarded the contract to the MACDONALD CONSTRUCTION CO., for changing Channel of the Lackawanna River, at about $25,000.

Arch.—Valley Forge, Pa.—Bids were received as follows on Nov. 15, by Maj. Herbert Deakyne Corps Engrs., U. S. A., Philadelphia, for erecting a memorial arch here: (a) kind of granite; (b) price: James G. Doak & Co., Philadelphia, Pa., (a) North Jay White, (b) $81,845, Rockport Gray, $90,805, Woodbury, $94,345, Booth Bros. Maine Granite, $87,345, respectively; The Van Amringe Granite Co., Boston, Mass., (a) Sample No. 1-A, (b) $135,750 and Sample No. 3-C, $129,500; The Norcross Brothers Co., Worcester, Mass., (a) Stony Creek, $93,800, Troy White, $102,800 and Milford, Mass., $105,000; John M. Gessler's Sons, Philadelphia, Pa., (a) Barre, $102,000, Concord, $94,500. West Dummerston, $111,200 and Woodbury, $107,550; J. C. Robinson & Son, New York, (a) Sample "B" light gray, (b) $90,939, Sample "A" white, $91,974, West Townsend pink, $94,344; The Chas. McCaul Co., Tenth and Sansom Sts., Philadelphia, (a) West Townsend pink, (b) $84,800; Combes & Ward, New York, (a) Hallowell white, (b) $99,960 and Carolina pink, $110,000; John E. Flynn, Philadelphia, (a) Deer Island, (b) $109,969; Woodbury Granite Co., Hardwick, Vt., (a) Light gray Woodbury, (b) $115,000 and White Bethel, $132,000; The John Swenson Granite Co., Concord, N. H., (a) Concord, (b) $91,860; Booth Bros. & Hurricane Isle Granite Co., New York, (a) Waldeboro, (b) $96,500, Narragansett pink, $101,500 and Fox Island, $96,000; Webb Pink Granite Co., Worcester, (a) Milford white, (b) $102,000, Milford pink, $102,000 and New Hampshire gray, $97,000; Henry L. Brown, Philadelphia, (a) Pigeon Hill gray or pink, (b) $92,900. The prices in the first three bids of James G. Doak & Co., do not include cost of carving, about $10,500.

***Lighthouse.**—Baltimore, Md.—Bids will be received until Dec. 15 by Com. H. C. Poundstone, Lighthouse Inspector, Baltimore, for the metal work and erection of the Thimble Shoal Lighthouse, Va.

Jetty Construction. — Wilmington, Del.—Bids were received as follows on Nov. 4, for jetty construction at the mouth of the Mispillion River, Del.: E. J. Doyle, Albany, N. Y., $18 per lin. ft.; Tatnall-Brown Co., Wilmington, $12.35 per lin. ft.

Gunboat.—Washington, D. C.—Bids will be received until noon, Feb. 1, by the Navy Department, Washington, for the construction of one gunboat, No. 19. A circular of requirements for the vessel will be ready Dec. 1. Forms of proposal and contract may be had on application to the Department after Dec. 15. Beekman Winthrop is Acting Secy.

Dredging.—Washington, D. C.—Bids were received as follows on Nov. 18 by Lt.-Col. W. C. Langfitt, Corps Engrs., U. S. A., Washington, for dredging in the Mattaponi and Pamunkey Rivers, Va., (a) Mattaponi River, 23,400 cu. yds., (b) Pamunkey River, 45,000 cu. yds.: Miner Engineering Co., Washington, (a) 30 cts, (b) 2.15 cts.; total, $16,695; W. H. French, Norfolk, Va., (a) 19.5 cts., (b) 18.5 cts., $12,888; Atlantic, Gulf & Pacific Co., New York, (a) 32 cts., (b) 26 cts., $19,188.

Immigration Station.—New Orleans, La.—Bids will be received until 2 p. m., Dec. 19, by Samuel E. Redfern, Comr. Irrigation, Bon Marche Bldg., New Orleans, for furnishing all labor and materials necessary for the construction of an immigration station here.

Fire-Engine House. — Cleveland, Ohio.—The lowest bid received by the city on Nov. 6, for the construction of an automobile fire-engine house was that of the Cleveland Fireproof Construction Co., The Arcade, Cleveland, at $15,975. There were 32 bids submitted.

Ditch.—Decatur, Ind.—Bids will be received by C. C. Ernst, Supt. Constr., at the office of the County Surveyor of Adams County, until 10 a. m., Nov. 25, for the construction of the C. H. Hammerick Ditch in Blue Creek Township.

Shelter House.—Evansville, Ind.—Bids will be received by Simon Bartholomew, Clk., Park Bd., until 10 a. m., Nov. 29, for the construction of a shelter house in Sunset Park. Brubaker, Stern & Boyle are Archs., Evansville.

Broken Stone. — Indianapolis, Ind.—The Board of County Commissioners, Indianapolis, is asking for bids for 45 car loads of crushed stone for Marion County highways.

+Drain.—Rockport, Ind.—Bids were received on Nov. 11 by Hilbert Bennett, Drainage Comr., Rockport, for the John R. Huffman Drain. The contract was awarded to the WOLCOTT DREDGING CO., of Wolcott, Ind., at 7.97 cts. per cu. yd. Other bidders were Fred C. Morgan, 8.10 cts.; J. M. Foohey, 8 cts.; E. B. Thomas, 8.15 cts.; Earl Steinberg, 8.12 cts.

+Drain.—Rockport, Ind.—Bids were received as follows on Nov. 11 by Hilbert Bennett, Drainage Comr., Rockport, for the construction of the R. W. Richards Drain: D. J. DILLEY, Hebron, Ind., 7.80 cts. per cu. yd. (awarded contract); John McMann, 8.10 cts.; F. E. Kersey, 8.04 cts.; W. N. Mosley, 8.45 cts.; John A. Brumbaugh, 8 cts.; E. D. DePoy, 8.13 cts.

Ditches. — Carmi, Ill. — Bids will be received until noon, Dec. 1, by the Partridge Drainage District Commissioners, White County Bank, Carmi, for the construction of ditches aggregating 76,278 cu. yds. The main ditch is on 8-ft. base and runs from 22 to 26 ft. wide on top; cuts 5 to 10-ft.; average cut, about 7½ ft. The two laterals, 3,582 and 4,100 ft. respectively have bases mostly 6- to 8-ft. The work is about five miles northeast of Carmi and one-half mile north of Simpson Switch, on the Cleveland, Cincinnati, Chicago & St. Louis Ry. F. E. Pomeroy is Treas., Carmi.

Parks.—Chicago, Ill. — The citizens, it is reported, have voted to issue $1,000,000 of bonds for park work. L. E. McGann is Comr. Pub. Wks.

Drainage Canal. — Sycamore, Ill. — The Coon Creek Drainage District of DeKalb and Kane Counties is considering the construction of a 15-mile canal and a 2-mile lateral ditch. W. M. Hay, of Sycamore, Ill., is Engr.

Steel Drydock.—Manitowoc, Wis.—The Manitowoc Shipbuilding & Dry Dock Co. will construct a 600-ft. steel dry dock for repairing and building large steel boats on the Great Lakes. The company recently increased its capital from $350,000 to $1,000,000. Elias Gunnell is Pres.

Dock.—Marinette, Wis.—The city is considering the erection of a municipal dock to cost about $10,000. It will be 515 ft. long. A dock fund has been started and $6,000 deposited.

+Ditch. — Pocohontas, Iowa. — The FRED M. CRANE CO. of Council Bluffs, Iowa, has been awarded the contract for constructing an open ditch for Drainage Ditch No. 66, 31,000 ft. long, with 8 and 10-ft. base and an average depth of 9-ft. requiring 196,000 cu. yds. of excavation, at 6.78 cts. per cu. yd. Bids were opened on Nov. 7 by J. A. Terry, County Audr., Pocahontas.

Drainage.—Storm Lake, Iowa.—The Buena Vista County Supervisors, Storm Lake, have decided to establish the Coon River Drainage District. Estimated cost about $190,000.

+Ditch.—Anoka, Minn.—The contract has been awarded to the ROOD CONSTRUCTION CO., of Grand Rapids, Wis., by the county for the construction of Ditch No. 53, at $26,905. Bids were opened by Arthur A. Caswell, County Audr., on Nov. 11.

Fish Hatchery. — Kalispell, Mont. — C. F. Helea, Supt. State Fish Hatchery, has prepared plans for the construction of a new fish hatchery to be built at Merton Springs, ten miles northwest of here.

+Drainage Ditch.—Cotton Plant, Ark.—The contract for constructing an open drainage ditch for the Turkey Creek Drainage District has been awarded to R. L. LEONARD, of Memphis, Tenn., at $18,000. W. A. Keene, Jr., is Engr., Cotton Plant.

Pipe Line.—Electra, Tex.—The Texas Co., of Houston, Tex., is preparing to lay an oil pipe-line from the Electra oil fields to Dallas, Tex., about 150 miles. The company has secured the right-of-way for a part of the distance.

Levee.—Fort Worth, Tex.—The City Commission has requested the Board of Water Experts to prepare estimates and plans for a levee to protect the Holly pumping station and the dual water plant from possible damage from high water when the other levee is completed on the opposite side of the river.

+*Stables. — Fort Huachuca, Ariz.—The contract has been awarded by the government to ROY & TILCOMB of Nogales, Ariz., for the construction, complete, of cavalry stables here, at $23,650.

Dock.—Seattle, Wash.—R. H. Thomson City Engr., has prepared plans and specifications for a municipal dock, 50 × 250 ft., to be provided with a float, 22 × 60 ft.

Drydock. — Seattle, Wash. — The Moran Co. of Seattle, it is reported, will construct a large drydock at the foot of Railroad Ave., South. Estimated cost, between $200,000 and $300,000.

Dredge.—Portland, Ore. — New bids will be asked by Maj. J. J. Morrow, Corp Engrs., U. S. A., Portland, for the construction of a dredge for Coos Bay, Ore. The amount available is $350,000.

+Dredge.—Portland, Ore.—Bids were received as follows on Nov. 9 by the Port of Portland Commission for the construction of a 30-in. hydraulic dredge with steel hull: WILLAMETTE IRON & STEEL WORKS, foot of 17th St., Portland, $236,000 (awarded contract); Portland Iron Works, $264,879; Smith & Watson, $276,000; John Wood Iron Works, $277,000.

Fire-Hose.—Los Angeles, Cal.—L. A. Handley, City Clk., has been instructed to advertise for bids for 10,000 ft. of fire-hose.

Fire Apparatus. — Pasadena, Cal. — Herman Dyer, City Clk., will receive bids until 10.30 a. m., Dec. 5, for furnishing one motor-propelled auto fire-engine and hose wagon and one motor-propelled auto chemical engine and hose wagon.

Fill.—Riverside, Cal.—A. P. Campbell, City Engr., has been authorized to prepare plans and specifications for the fill over the Terquesquite Arroya and to advertise for bids for construction.

Tunnel.—San Francisco, Cal.—Plans are being prepared by Marsden Manson, City Engr., for the construction of the Stockton St. tunnel.

Wharves.—San Francisco, Cal.—The Harbor Commissioners have decided to construct six new wharves, two to be located north of Lombard St., and four, between Harrison and Brannon Sts.

+Piling.—Santa Barbara, Cal.—JOHN WILLIAMSON has been awarded the contract for the construction of 6,000 ft. of piling and other work at Rincon Point preliminary to the construction of the Rincon sea-level road, at $36,000.

Drydock.—Quebec, Que.—A charter has been granted to the British North American Drydock & Ship Building Co., Ltd., with a capital of $1,000,000. The company, it is reported, will apply for subsidies for a drydock 1,150 ft. long and 110 ft. wide. T. Ross, of Quebec, is interested.

Dredging.—Byng Inlet, Ont.—Bids will be received until Nov. 27, by R. C. Desrochers, Secy., Dept. Pub. Wks., Ottawa, Ont., for dredging here.

Asphalt, Etc.—Toronto, Ont.—Bids will be received by the Chairman of the Board of Control until noon, Dec. 5, for annual supplies for the year ending Dec. 31, 1912, as follows: Asphalt, asphalt blocks, cement, crushed stone, cedar posts, field tile, granite paving blocks, granite boulders, limestone dust, paving bricks, pit gravel (screened and unscreened), rubble stone, sand, sand for asphalt purposes, street signs, treated wood blocks, brass and bronze castings, c.-i. pipes, hydrants, iron valves and stop cock boxes, iron castings, manhole tops, etc., iron and steel, lumber, lumber for bridges and docks, piles, lubricating oils, load pipe, rubber valves, etc., stop valves, special castings, sewer pipe, sewer brick. Specifications may be seen and forms of proposal obtained at the office of C. H. Rust, City Engr.

Tug, Barge, Etc.—Winnipeg, Man.—Bids will be received by N. J. Black, 308 Grain Exchange, Winnipeg, for three barges, one tug, one ship barge, and sand dredge and three quarry derricks to lift from three to six tons, and one large stone crusher, with boilers and engines complete, to be built on the Red River or on Lake Winnipeg. Particulars may be obtained from William Bruce, 222 McDermott Ave., Winnipeg.

U. S. POSSESSIONS AND CUBA.

Reinforcement Material.—Panama.—Bids will be received until 10.30 a. m., Dec. 6, by Maj F. C. Boggs, Corps Engrs., U. S. A., Gen. Pur. Officer, Isthmian Canal Comn., Washington, D. C., for furnishing steel slab and reinforcement material, Circular No. 665.

Structural Steel. — Panama. — Bids were received as follows on Nov. 15, by Maj. F. C. Boggs, Corps Engrs., U. S. A., Gen. Pur. Officer, Isthmian Canal Comn., Washington, D. C., for (1) 1,117,954 lbs. of 15-in., 20-in. and 24-in. I-beams, with angles, flange plates and web plates; (2) 10,418 lbs. of button-head rivets, ¾-in.; (3) 214,000 lbs. steel reinforcing rods, ¾-in. square: Baltimore Bridge Co., Baltimore, Md., (1) $20,205, (2) $203, (3) $3,370; Belmont Iron Works, Philadelphia, Pa., (1) $20,261, (2) $286, (3) $3,317; Buffalo Steel Co., Buffalo, N. Y., (3 $2,886; Concrete Steel Co., New York, (3) $2,821; Corrugated Bar Co., New York, (3) $2,825; Des Moines Bridge & Iron Co., Pittsburgh, Pa., (1) $19,192; Oliver Iron & Steel Co., Pittsburgh, (2) $197; Shoemaker & Co., Philadelphia, (1) $22,706, (2) $245, (3) $3,584; U. S. Steel Products Co., New York, (1) $14,791, (2) $164, (3) $2,833; J. B. Kendall Co., Washington, (1) $18,335, (2) $181, (3) $2,846; McClintic-Marshall Construction Co., Pittsburgh, (1) $19,005, (2) $185.44, (3) $3,477.

Material for Chain Fenders.—Panama.—Bids were received as follows on Nov. 14 by Maj. F. C. Boggs, Corps Engrs., U. S. A., Gen. Pur. Officer, Isthmian Canal Comn., Washington, D. C., for material for chain fenders for all locks on the Panama Canal. Group 1 consists of material for one chain fender or unit, for trial, and includes Item 1, two steel hawse-pipe castings; (2) cylinders, sheaves, eyebars; (3) structural work; (4) two operating valves; (5) pipings and fittings from cylinders to pumps and tanks; (6) mechanism for starting and stopping pump, excepting electric apparatus Group 2 consists of the complete equipment for 23 chain fenders or units, to be awarded after trial of Group 1. It includes, Item (1a), 24 steel hawse-pipe castings; (1b) 22 steel hawse-pipe castings for wall without beveled coping; (2a) cylinders, sheaves, eyebars, etc., for 21 fenders; (2b) cylinders, eyebars, guides, etc., for two fenders; (3a) structural work for 12 fenders (at midde and safety gates); (3b) structural work for five fenders (above upper guard gates); (3c) structural work for four fenders (below lower guard gates); (4) 46 operating valves; (5a) piping and fittings from cylinders to pump and tank, for 16 fenders; (5b) same for five fenders; (6) mechanism for starting and stopping the pump, excluding electric apparatus, for 21 fenders. The bids follow: Bethlehem Steel Co., South Bethlehem, Pa., Group 1, $36,490; (1) $4,522; (2) $22,379; (3) $3,613; (4) $1,056; (5) $4,125; (6) $794. Group 2, $721,957; (1a) $47,613; (1b) $44,562; (2a) $424,433; (2b) $277,029; (3a) $38,418; (3b) $18,040; (3c) $13,519; (4) $19,851; (5a) $58,300; (5b) $17,102; (6) $13,000. Fawcus Machine Co., Pittsburgh, Group 1, $24,359; (1) $2,172; (2) $15,711; (3) $1,935; (4) $596; (5) $3,402; (6) $543. Group 2, $437,526; (1a) $19,839; (1b) $18,260; (2a) $267,976; (2b) $26,097; (3a) $18,654; (3b) $8,713; (3c) $6,577; (4) $9,576; (5a) $40,079; (5b) $12,458; (6) $9,323. Pittsburgh Valve, Foundry & Machine Co., Pittsburgh, Pa., Group 1, $48,273; (1) $4,647; (2) $37,650; (3) $2,170; (4) $612; (5) $2,598; (6) $596. Group 2, $434,876; (1a) $29,375; (1b) $24,636; (2a) $268,929; (2b) $18,073; (3a) $21,790; (3b) $10,015; (3c) $7,550; (4) $7,007; (5a) $32,350; (5b) $9,797; (6) $5,361. Rosedale Foundry & Machine Co., Pittsburgh, Group 1, $26,213; (1) $2,395; (2) $16,980; (3) $2,210; (4) $560; (5) $3,358; (6) $710. Group 2, $470,914; (1a) $25,320; (1b) $23,106; (2a) $285,870; (2b) $19,254; (3a) $21,156; (3b)

$9,850; (3c) $7,535; (4) $8,124; (5a) $48,130; (5b) $14,640; (6) $7,940. William Todd Co., Younstown, Ohio, Group 1, $37,800; (1) $4,100; (2) $24,000; (3) $2,800; (4) $1,200; (5) $4,000; (6) $1,700. Group 2, $782,000; (1a) $44,500; (1b) $42,000; (2a) $485,000; (2b) $33,200; (3a) $29,400; (3b) $13,800; (3c) $10,300; (4) $26,600; (5a) $47,600; (5b) $14,800; (6) $33,800. United Engineering & Foundry Co., Pittsburgh, Group 1, $21,113; (1) $1,914; (2) $12,916; (3) $1,923; (4) $609; (5) $3,265; (6) $486; Group 2, $406,892; (1a) $19,679; (1b) $18,030; (2a) $251,311; (2b) $17,827; (3a) $18,376; (3b) $8,528; (3c) $2,410; (4) $9,970; (5a) $38,494; (5b) $11,950; (6) $6,317. Otis Elevator Co., 17 Battery Pl., New York, Group 1, $24,704; (1) $2,400; (2) $15,981; (3) $2,190; (4) $483; (5) $3,165; (6) $485. Group 2, $465,523; (1a) $26,526; (1b) $24,316; (2a) $281,613; (2b) $18,693; (3a) $18,667; (3b) $8,820; (4) $6,066; (5a) $51,143; (5b) $15,571; (6) $7,423. Steacy-Schmidt Mfg. Co., York, Pa., Group 1, $25,966; (1) $2,370; (2) $17,600; (3) $2,775; (4) $400; (5) $2,456; (6) $365. Group 2, $485,368; (1a) $23,550; (1b) $22,150; (2a) $310,800; (2b) $22,000; (3a) $25,500; (3b) $13,895; (3c) $9,200; (4) $6,240; (5a) $34,800; (5b) $10,568; (6) $6,665. Westinghouse Machine Co., East Pittsburgh, Pa., Group 1, $30,499; (1) $3,365; (2) $20,245; (3) $2,347; (4) $528; (5) $3,640; (6) $374. Group 2, $514,026; (1a) $30,652; (1b) $28,098; (2a) $322,679; (2b) $21,957; (3a) $21,384; (3b) $8,910; (3c) $7,128; (4) $9,229; (5a) $44,203; (5b) $13,813; (6) $5,973. Wheeling Mould & Foundry Co., Wheeling, W. Va., $30,731; (1) $3,045; (2) $20,175; (3) $2,319; (4) $918; (5) $3,421; (6) $852. Group 2, $573,417; (1a) $54,393; (1b) $31,529; (2a) $352,955; (2b) $26,655; (3a) $22,728; (3b) $10,553; (3c) $7,976; (4) $16,686; (5a) $40,394; (5b) $12,545; (6) $1,704.

Electric Locomotives.—Panama.—Bids were received as follows on Nov. 20, by Maj. F. C. Boggs, Corps. Engrs., U. S. A., Gen. Pur. Officer, Isthmian Canal Comn., Washington, D. C., for furnishing electric towing locomotives for the Canal locks. Bids were asked under Circular 650 for the material and parts necessary to complete one electric towing locomotive, 30 electric towing locomotives and spare parts for same. It is the intention of the Commission to purchase at once under these specifications one locomotive complete. The Commission reserves the right after tests of this locomotive, to order the remainder, this right being optional and dependent, in a measure, upon the satisfactory performance of the trial locomotive. Should the Commission decide to exercise its right and order the remaining locomotives, the contractor will be so notified not later than three months after the delivery of the trial locomotive. The remaining locomotives must be at least equal in all respects to the trial locomotive. The Commission reserves the right to increase or diminish the number of locomotives called for, by 20% or less. Bids were asked under the following classes: Class 1, Item (1) one locomotive for trial, Gatun Locks; Item (2) 39 locomotives; Item (3) spare parts; alternative "A" Class 1, same as Class 1, except that wherever vanadium steel is specified, cast-steel shall be used; deliveries: (a) Class 1, Item (1) (b) Item (2) four locomotives each, Gatun, Pedro Miguel and Miraflores Locks, twelve in all; (c) eleven locomotives each for Gatun and Miraflores, four for Pedro Miguel, 27 in all. Spare parts are to be delivered complete 30 days before completion of the contract. The bids follow: Atlas Car & Mfg. Co., Cleveland, Ohio, Class 1, $831,542; (1) $38,500; (2) $764,400; (3) $28,642; ("A") $827,396; (1) $38,400; (2) $760,500; (3) $28,496. On Westinghouse motors; alternative bid on General Electric motors; Class 1, $821,477; (1) $31,000; (2) $761,670; (3) $28,707; "A", $808,961; (1) $31,000; (2) $756,600; (3) $21,361; deliveries, (a) 180-200 days; (b) 235 to 260 days; (c) 260-470 days. On the General Electric proposition, 46 days longer. McMyler-Interstate Co., Cleveland, Class 1, $650,068; (1) $26,175; (2) $602,550; (3) $21,343; ("A") $643,484; (1) $26,000; (2) $596,700; (3) $20,784. Deliveries: (a) 185 days; (b) 185-205 days; (c) 235-325 days. On General Electric equipment: Class 1, $638,413; (1) $20,400; (2) $598,650; (3) $19,363; ("A"), $630,972; (1) $20,200; (2) $590,850; (3) $19,922. Deliveries: (a) 255 days; (b) 210-230; (c) 260-350 days. Fawcus Machine Co., Pittsburgh, on Westinghouse equipment: Class 1, $530,213; (1) $22,145; (2) $492,017; (3) $16,051. ("A") $521,622; (1) $21,943; (2) $484,121; (3) $15,558. Deliveries, (a) 210 days; (b) 90-167 days; (c) 288-356 days. On General Electric equipment: Class 1, $508,046; (1) $18,613; (2) $473,382; (3) $16,051; ("A"), $499,473; (1) $18,411; (2) $465,504; (3) $15,558. Deliveries: (a) 220 days; (b) 90-200 days; (c) 230-470 days. General Electric Co., Schenectady, N. Y., Class 1, $510,473; (1) $25,278; (2) $468,000; (3) $17,106. ("A") $498,016; (1) $24,976; (2) $456,300; (3) $16,740; on body sections of its own manufacture. Deliveries, (a) 260-290 days; (b) 210-270 days; (c) 280-480 days. Alternative propositions: one locomotive and 40 locomotives: One, $25,292; 40, $501,638; one, $25,161, 40, $493,746; one, $25,313, 40, $501,230; one, $25,011; 40, $480.375. One, $26,580, 40, $568,440; one, $26,278, 40, $556,446; one, $26,594, 40, $576,808; one, $26,615, 40, $576,400. The last four bids are on Lidgerwood Mfg. Co.'s patented slip-friction windlass body sections. Westinghouse Electric & Mfg. Co., Pittsburgh, on body sections of Baldwin Mfg. Co., and Brown-Hoisting Machinery Co.: Class 1, $575,121.75; (1) $24,702; (2) $532,430; (3) $17,970. ("A"), $564,334; (1) $24,448; (2) $522,524; (3) $17,272. On Westinghouse Body sections: Class 1, $579,400; (1) $24,189; (2) $536,850; (3) $18,361. On Lidgerwood body sections: Class 1, $717,943; (1) $28,493; (2) $666,981; (3) $22,469. Deliveries: (a) 140 days; (b) 132-209 days; (c) 216-398 days.

INDUSTRIAL NOTES.

Readers are requested to send short notes regarding new contracts they are about to award, or have secured, for our news columns. Changes in firms and changes in addresses of contractors and supply houses are also wanted. News regarding new developments and contractors machinery or equipments is desired, but write-ups will not be inserted under any circumstances. Notes must contain news giving definite information of interest to readers of Engineering News.

The Jeffrey Mfg. Co., Columbus, O., has opened a branch office at 1201 American Bank Bldg., Seattle, Wash., in charge of Mr. Percy I. Wright. Mr. Wright has been connected with the home office for about ten years, and has travelled the Northwest for several years. The company is now maintaining thirteen branch offices in the United States, and nearly one hundred agencies scattered throughout the world where mining, elevating, conveying and transmission machinery is sold.

LIST OF CONTRACTS PENDING

Plans and Specifications on File.

The following plans (P.) and Specifications (S.) are on file for reference only unless otherwise noted at the office of The Engineering News Publishing Co., 220 Broadway, New York.

Bids close.		Noted in issue of
11-25	Bridge, Portsmouth, N. H. (S.)	11- 2
12- 2	Bridge and wharf, Indianhead, Md. (S)	11- 9
12- 2	Repairs to conveyors, Key West, Fla. (S.)	11-16
12-16	Magazine bldgs., Bremerton, Wash. (S)	11- 9

Light, Heat and Power Plants.

Bids close.		Noted in issue of
11-24	*Equipment for power station, Lethbridge, Alta.	10- 5
11-27	Heating plant, Los Angeles, Cal.	11- 9
11-27	Boilers, New York, N. Y.	11-23
11-28	Rewiring, New York, N. Y.	11-23
11-30	Machinery, Sedro-Woolley, Wash.	11-23
11-30	Street lighting, Saratoga Springs, N. Y.	11-16
12- 5	Electric ligth plant, Corydon, Iowa	11-23
12- 5	Electric light system, New York, N. Y.	11-23
12- 6	Steam plant, Enfield, N. C.	11-23
12- 7	Power machinery, New Orleans, La.	10-12
12- 9	Light plant, Piedmont, Ala.	11-16
12-16	*Materials, (See Proposals) Philadelphia, Pa.	11- 9

Bridges.

Bids close.		Noted in issue of
11-24	Culvert, Cincinnati, O.	11- 9
11-24	Viaduct, Cincinnati, O.	11- 9
11-25	Bridge, Toledo, Ohio	10-26
11-25	Bridge, Portsmouth, N. H.	11- 2
11-25	Bridges, Warrensburg, Mo.	11-23
11-28	Bridge, Seattle, Wash	11-23
11-29	Bridge work, Cleveland, O.	11- 9
12- 1	*Superstructure, Portland, Ore.	10-19
12- 2	Bridge, Indianhead, Md	11- 9
12- 2	Bridge work, Cleveland, O.	11-16
12- 4	Bridge, Allentown, Pa	11-23
12- 5	Bridges, Petersburg, Ind	11-23
12- 5	*Bridge, Toledo, Ohio	11-23
12- 6	*Bridge, Castle Hayne, N. C.	11- 9
12-18	*Bridges, Fulton, N. Y.	11-23
12-28	*Bridge, New Orleans, La	11-16
1- 4	Bridge work, Preston, Iowa	11-23
1-15	Viaduct, Atlanta, Ga	11-23

Buildings.

Bids close.		Noted in issue of
11-24	School, Arcadia, Ind	11-23
11-25	Warehouse, Chicago, Ill	11-23
11-27	Court-house, Inverness, Fla.	11-23
11-27	School, Urbana, Ohio	11-23
11-27	*U. S. post-office, Huron, S. Dak.	10-19
11-27	New high school, Mt. Vernon, N. Y.	11-16
11-27	Court-house, Chattanooga, Tenn.	11- 9
11-27	High school, Pasadena	11-16
11-27	Hotel, Hartford, Conn	11-16
11-28	Fire houses, New York	11-23
11-29	Apartment house, Balt., Md.	11-16
11-29	*Cottages, Valatie, N. Y.	11-16
11-29	U. S. post-office, Bloomington, Ind.	10-19
11-30	Buildings, Baton Rouge, Pa.	11-16
12- 2	*U. S. post-office, Parsons, Kan.	10-19
12- 4	Town Hall, Nahant, Mass.	11-23
12- 5	U. S. post-office, Union City Tenn.	10-19
12- 5	Infirmary, Rockville, Ind	10-19
12- 5	College bldgs., Storrs, Conn.	11-16
12- 5	Shop bldg. (Mfg. Pl.), New York, N. Y.	11-23
12- 5	Laundry machinery (Mfg. Pl.), New York, N. Y	11-23
12- 6	City Hall, Cleveland Ohio	11-16
12- 6	City hall and jail, Pasco, Wash.	11-23
12- 9	*Decorating court - house, Omaha, Neb.	11-23
12-12	Court-house, Central City, Neb.	11-23
12-12	*Hospital equip., Pottsville,, Pa.	11-16
12-14	U. S. marine hospital, Stapleton (S. I.), New York	11-16
12-14	*U. S. post-office, Homestead, Pa.	10-19
12-20	U. S. post-office, Westfield, Mass.	11-16
12-27	U. S. post-office, Miami, Fla.	11-16
12-27	*U. S. post-office, San Diego, Cal.	11-23
12-28	U. S. custom house, remodel, Boston, Mass	11- 2
1- 4	Hospital, Louisville, Ky	11-23
——	Business Block, Elwood, Ind.	11-23
——	Market, Muncie, Ind	11-23
——	Car barns, Lagrange, Ind.	11-23
——	Remodeling armory, Buffalo, N. Y.	11-16
——	Y. M. C. A., Vincennes, Ind.	11-16
——	Church, Oak Forest, Ill	11-16

Water-Works.

Bids close.		Noted in issue of
11-23	Water-works, Russell, Ky.	11-23
11-24	Water pipe, Boston, Mass	11-23
11-24	Water system, Albany, O.	11-23
11-24	Pipe line, etc., Independence, Mo.	11-16
11-25	Watermains, Brainerd, Minn.	11-23
11-27	Water pipe, Wash., D. C.	11-23
11-27	Water-works, Pacific, Mo	11-16
11-28	Water-wks,, Monmouth, Ore.	11-16
11-28	Water pipe, Los Angeles, Cal.	11-23
11-30	*Canals, Yuma, Ariz	11- 9
12- 1	*Water supply, Cumberland, Md	11- 2
12- 2	Water-wks., Hubbard, Ohio.	11-16
12- 2	Well, DeKalb, Ill	11-23
12- 4	Water main, Fargo, N. Dak.	11-23
12- 4	*Reservoirs, etc., Clarksville, Tenn.	11-23
12- 4	Water system, Rushville, Ill.	11-16
12- 4	Pumping engines, Moose Jaw, Sask.	11- 9
12- 5	Water-wks., Elma, Wash	11-16
12- 5	*Pumping engine, Muskogee, Okla.	11-23
12- 6	*Pumping engine, Erie, Pa	11- 9
12- 6	Electrical energy, Fallon, Nev	11- 2
12-7	*Pumping bldg., etc., Charlotte, N. C.	11-23
12- 9	Water extensions, Piedmont, Ala.	11-16
12-10	*Dam, etc., Boise, Idaho	11-23
12-11	*Pump, Wilmington, Del	11-23
12-12	Pump, Mason City, Iowa	11-23
12-14	*Pumping station, Clarksville, Tenn.	11-16
12-15	Pump house, tower, etc., Neepawa, Man	11- 2
12-15	Water-works, Loreauville, La.	11-23
12-20	Pumps, Chicago, Ill	11-23

Sewers.

Bids close.		Noted in issue of
11-23	Sewer, Bloomington, Ill	11-23
11-23	Sewers, Milwaukee, Wis	11-23
11-24	*Sewer system, etc., Ligonier, Pa.	11-16
11-27	*Sewers, Plainfield, N. J	11-16
11-27	Sewer, New York, N. Y	11-23
11-28	Sewers, Troy, N. Y	11-23
11-28	Sewer, Fond du Lac, Wis	11-23
11-28	Sewers, etc., Philadelphia, Pa.	11-23
11-29	Sewers, etc., New York	11-23
12- 1	Sewer, Youngstown, Ohio	11-23
12- 1	*Sewerage system, Glenellyn, Ill.	11-23
12- 4	Sewers, Atchison, Kan	11-23
12-11	*Disposal plant, Norristown, Pa.	11-16
12-12	*Sewer, New Bedford, Mass	11-16
12-16	*Sewer system, Pleasant Ridge, Ohio	11-23

Streets and Roads.

Bids close.		Noted in issue of
11-23	Highway, Towson, Md	11-23
11-24	Paving, Boston, Mass	11-23
11-24	Culvert, Cincinnati, Ohio	11-23
11-24	Paving, etc., Newton N. J	11- 9
11-24	*Paving, Jacksonville, Fla	11- 9
11-27	*Highway improvement, Albany, N. Y.	11- 2
11-27	Sidewalks, Lancaster, Mo	11- 9
11-27	Paving, New York, N. Y	11-23
11-27	Paving, Boston, Mass	11-23
11-28	Paving, Troy, N. Y	11-23
11-29	Road impvt., Paterson, N. J.	11-23
11-29	Paving, etc., New York	11-23
11-29	*Highway improvement, Albany, N. Y.	11- 2
12- 1	Paving, Edmonton, Alta	11- 2
12- 1	Road improvement, Cincinnati, Ohio	11- 9
12- 1	Soil work, Boston, Mass	11-16
12- 1	Clay road, Dadeville, Ala	11-16
12- 1	Street impvt., Wooster, O.	11-23
12- 1	Paving, Youngstown, Ohio.	11-23
12- 4	Paving, Brandon, Miss	11-16
12- 4	Gravel road, Williamsport, Ind.	11-16
12- 4	Gravel roads, Fowler, Ind.	11-16
12- 4	Macadam road, Greenfield, Ind.	11-16
12- 4	Gravel road, Huntington, Ind.	11-16
12- 4	Paving, Atchison, Kan	11-23
12- 4	Paving, Yonkers, N. Y	11-23
15- 5	Stone road, Logansport, Ind.	11-16
12- 5	Gravel roads, Valparaiso, Ind.	11-16
12-11	Highway, New Orleans, La.	11-23
1-15	Viaduct, Atlanta, Ga	11-23
2- 1	Paving, Rochelle, Ill	11-23

Miscellaneous.

Bids close.		Noted in issue of
11-24	Equipment, Los Angeles, Cal.	11-16
11-24	*Locomotive crane, Memphis, Tenn.	10-26
11-24	Ditch, Olivia, Minn	11- 9
11-24	Wall & fence, Boston, Mass.	11-23
11-25	Ditch, Decatur, Ind	11-23
11-25	Channel work, Santa Ana, Cal.	11-16
11-27	*Channel impvt., New York	11- 2
11-27	Dredging, Byng Inlet, Ont.	11-23
11-27	Refuse disposal, Philadelphia, Pa. (Garbage)	11-23
11-27	Shelter-house, Evansville, Ind.	11-23
11-28	*Bulkhead wall, Providence, R. I	11- 2
11-28	Dock, Bulgaria..(Foreign)	11- 2
11-28	Steel castings, etc., Panama, (U. S. Poss.)	11-16
11-29	*Bulkhead wharf, Richmond, Va.	11-16
11-29	Levee and ditches, Winchester, Ill.	11-16
11-29	Copper wire, etc., Australia (Foreign)	10-19
11-29	Fire apparatus, New York	11- 9
11-29	Repairs to ferryboats, N. Y.	11-23
11-29	Miscellaneous supplies, N.Y.	11-23
12- 1	Buildings, Hawaii (U. S. Poss.)	11- 9
12- 1	Monument, Elmira, N. Y	11- 9
12- 1	*Pumping machinery, India, (Foreign)	9-21
12- 1	Drainage, Osceola, Ark	10- 5
12- 1	*Hulls and boilers, Charleston, S. C.	11- 2
12- 1	Soil work, Boston, Mass	11-16
12- 1	Gun carriages, Wash., D. C.	11-16
12- 1	Ditches, Carmi, Ill.	11-23
12- 1	*Sand-handling machinery, Peekskill, N. Y.	11-23
12- 2	Repairs to conveyors, Key West, Fla.	11-16
12- 2	*Cut stone, Nashville, Tenn.	11- 2
12- 4	*Condensers, pumps, etc., Philippine Islands (U. S. Poss.)	10- 5
12- 4	*Engines, generators, etc., Philippine Islands (U. S. Poss.)	9-28
12- 5	Buildings, Porto Rico (U. S. Poss.)	10-19
12- 5	Barge Canal, Albany, N. Y.	11- 9
12- 5	Subway, New York	11-16
12- 5	*Refuse disposal, Boston, Mass.	11-16
12- 6	Reinforcement material, Panama (U. S. Poss.)	11-23
12- 7	*Concrete work, Cincinnati, O.	11- 9
12-10	Steel rails, Siam..(Foreign)	11- 2
12-10	*Dam, etc., Boise, Idaho	11-16
12-11	Road, Morocco...(Foreign)	11- 2
12-12	Wire, Australia..(Foreign)	11- 2
12-12	*Hospital equip., Pottsville, Pa.	11-23
12-13	Removing snow and ice, (Garbage), Boston, Mass.	11- 9
12-15	*Hopper suction dredge, British West Indies (Foreign)	11- 9
12-15	*Dredging, New York	11-23
12-15	*Lighthouse, Baltimore, Md.	11-23
12-16	Magazine buildings, Bremerton, Wash.	11- 9
12-16	*Light station, Phila., Pa.	11-16
12-19	Immigration station, New Orleans, La.	11-23
12-27	*Dredges, San Francisco, Cal.	10- 5
12-30	*Gate machines and pumps, Panama......(U. S. Poss.)	11- 2
1- 4	Battleships, Wash., D. C.	11- 9
2- 1	Gunboats, Wash., D. C.	11-23
2- 6	(1912) Cranes, rails, Uruguay (Foreign)	11- 2
——	*Concrete, Montezuma, N. Y.	10-26
——	Excavation, Shelburne Falls, Mass.	9-23

Examinations.

Examination date.		Noted in issue of
11-25	Assistant Mechanical Engineer, Washington, D. C.	10-26
12-13	Expert Tracer and Bridge Draftsman, Washington, D. C.	11-23
12-13	Aid.—Washington, D. C.	11-23

A feature of the new buildings now under construction for the Hupp Motor Car Co., Detroit, Mich., is the new Fenestra steel windows, which will be glazed with ribbed glass.

The Goulds Mfg. Co., Seneca Falls, N. Y., manufacturers of pumps and hydraulic machinery, announce the appointment of Mr. O. D. Hogue as Vice-President and Treasurer.

An interesting mechanical feature of "The New Theatre" in New York is the revolving stage designed by Mr. A. Falkenau. A similar stage designed to carry complete scene sets is to be incorporated in "The Little Theatre" which is being built by Mr. Winthrop Ames in the same city. The design for this stage which will be along the lines of that in the larger theatre, but somewhat in miniature, is now being worked out by the Hopper-Falkenau Engineering Co., New York, N. Y.

The Milwaukee Concrete Mixer & Machinery Co., Milwaukee, Wis., has recently purchased a large plant and will purchase additional machinery to be used for the manufacture of the Milwaukee mixers. The company has also found it necessary, on account of the increasing volume of business, to take on additional capital. Mr. A. C. Bodden will become an active member of the company in the capacity of Secy. and Treas., and Mr. W. J. Rosebery, Jr., who was formerly Vice-President and Secretary, assumes the duties and title of President and General Manager.

The Simplex Construction Co. has been organized to carry on a general foundation engineering-contracting business, with offices at 116 West 39th St., New York, N. Y. The company will make a specialty of concrete piling, and is the licensee for the Simplex System of Concrete Piling for New York State and Connecticut. Mr. Albert C. Titcomb, who is President and Treasurer of the New England Foundation Co., of Boston, Mass., is President and G. William Bailey, who has recently been engaged in general contracting and engineering in Western Massachusetts, is Treasurer and General Manager.

A decision has recently been rendered in the circuit court of the United States district of Massachusetts, sustaining an action in equity, brought by C. A. P. Turner, of Minneapolis, against the Quincy Market Cold Storage & Warehouse Co., of Boston, for an infringement of patent rights, involving Mr. Turner's system of concrete construction. The decree holds that letters patent, No. 985,119, are good and valid and that the defendant has infringed said letters patent by having in its possession and using a reinforced concrete building embodying in its construction the invention covered by said letters patent.

The Messrs. Richardsons of Billiter Square Bldgs., London, E. C., have just been appointed London Representatives of Messrs. Tait & Co., Kobe, Japan, who are opening an Engineering Department. Firms desirous of finding a market for their manufactures in Japan and the East, may send their catalogues in duplicate to Messrs. Richardsons' "Export Dept."

Cleveland, Crane & Engineering Co.—A large order of traveling cranes has been recently filled by this company for the new works of the American Bridge Co. at Gary, Ind. There are 25 cranes in all, ranging from 5 to 40 tons capacity. Six cranes of 90-ft. span each, equipped with two 5-ton hoists, are provided in the receiving yard, arranged two on each of three parallel runways. The shipping yard has four 30-ton cranes. The other cranes are installed in the forge, riveting, machine and assembly shops.

The Chesapeake & Ohio Ry. has recently compiled a book of 128 pages describing the industrial advantages along the lines of this company. This draws attention to the numerous towns and cities between Newport News and Chicago, where there are advantageous sites to be had for manufacturing purposes. The book is divided about equally between some general information regarding factories now located on the lines, and a description of the principal cities, as well as the railroad itself, and specific information regarding all of the larger towns. Mr. K. T. Crawley, Richmond, Va., is industrial agent for the road.

Morgantown, Va., is instituting a campaign to secure new industrial enterprises which is being carried on by the Board of Trade. A fund of $312,000 has already been raised for this purpose. The town, which offers good manufacturing sites, with good water, cheap oil, coal and gas, is reached by the Baltimore & Ohio R. R. and the Morgantown & Kirkwood R. R. An extension from Martin, Pa., is being built by the Pittsburgh & Lake Erie R. R. At present there are fifteen industries in the town, but diversified lines of manufacture are desired by the Board Dr. I. C. White, President of the Board of Trade and State Geologist, and G. Hunter, Secy., have the work of interesting manufacturers in hand.

The American Ship Windlass Co., builders of the Taylor stoker and marine equipment such as steering gears, ship windlasses, towing machines, winches, anchors, etc., has been located for over half a century in Providence, R. I., at Waterman and East River Streets. This plant is now being abandoned and all the business of the American Ship Windlass Co. is being removed to Philadelphia where the company already had a large plant. To accommodate the growing business a large foundry has recently been erected in Philadelphia. This company was established fifty-four years ago by Messrs. Frank S. and Joseph Manton, who had much to do with the invention of the ship windlass. From the manufacturer of the ship windlass the company branched out and since have added their marine machinery, and in 1905 began the manufacture of the automatic stoker, invented by Mr. E. E. Taylor of Boston.

The Indian Refining Co., Inc., 17 Battery Place, New York, has planned a most interesting trip, for a number of invited guests, to the Grand Prize Race of the Savannah Automobile Club. This trip, which will be under the supervision of Mr. A. B. Chamberlin, Manager of the Road Oil Department, will reach Savannah November 29, when the invited guests will be entertained at an old fashioned Georgia Barbecue, after which the inspection of the Chatham County Roads and the Automobile Course will be made. On Thursday the entire day will be devoted to witnessing the Grand Prize Race. The party will leave the same evening for Charlotte, N. C., to inspect the roads of Mecklenberg County. The guests will be entertained in private cars, one leaving New York and another Chicago, on which meals will be served, and they will likewise be used for sleeping purposes in Savannah.

The list of invited guests include a number of noted city and state engineers, superintendents of parks, streets and roads, from all over the country. There is no doubt that this will resolve itself into a select congress of road engineers.

Mr. John Spencer Camp has resigned as President, of the Pratt & Cady Co., Hartford, Conn. He was compelled to resign through sickness.

Mr. George Walworth Hayden, has been elected to fill the position as President.

Mr. Hayden entered the employ of the Pratt & Cady Co., two years ago, as Gen. Mgr., Since that time he has occupied the position of Vice-President, and has now been promoted to the Presidency. Mr. Hayden has been in the valve business for twenty-three years, having started with the Crane Co. in Chicago.

The Pratt & Cady Co. will from now on market the entire product itself.

Mr. George L. Spence has been appointed Manager and branch stores have been opened as follows: New York, 259 Canal St.; Boston, 130 High St.; Pittsburg, 321 Third Ave.; Detroit, 85 Jefferson Ave.; New Orleans; Chicago, 157 W. Lake St.; Indianapolis, 501 Board of Trade Bldg. McArdle & Cooney, are agents in the Philadelphia territory with headquarters at 507 Arch St., that city and the Hartford Mill Supply Co., 798 Pearl St., Hartford, Conn., has been appointed to look after the business in that field.

Wire Gages have been the source of much trouble and worry for there have been numerous classifications with the same number. The Bureau of Standards at Washington, has recommended to a number of the principal wire manufacturers and important consumers have agreed that it would be well to designate this gage as the "Steel Wire Gage"; in cases where it becomes necessary to distinguish it from the British Standard Wire Gage, it may be called the "United States Steel Wire Gage." The name thus adopted has official sanction, although without legal effect.

The only wire gage which has been recognized in Acts of Congress is the Birmingham gage. The Treasury Department has for many years used this gage in connection with importations of wire, and the adoption of succeeding tariff acts with provisions for the assessment of duty according to gage numbers gives legislative sanction to the gage.

Until certain provisions of the tariff act are amended, the Treasury Department probably cannot discontinue the use of the Birmingham gage. It should, however, be abandoned by all other users, since the gage itself is radically defective, and is nearly obsolete, both in the United States and in Great Britain, where it originated.

For copper wires and wires of other metals the gage universally recognized in the United States is the "American Wire Gage," also known as the Brown & Sharpe. No confusion need arise between the Steel Wire Gage and the American Wire Gage, because the fields covered by the two gages are distinct and definite.

The Burt Manufacturing Co., of Akron, Ohio, has recently put on the market a fan ventilator. It is similar to their regular natural-draft ventilation except that a power-driven six-bladed fan is provided to create a positive draft. This is intended for use in blacksmith shops, rubber factories, foundries and other buildings, where satisfactory ventilations are particularly difficult.

The ventilator has an emergency damper designed to close in case of fire and thus cut off the draft through the ventilator. The ventilator consists of a sheet-iron cylinder or pipe, with a conical roof, which projects through the roof of the room to be ventilated. Within the cylinder is the six-bladed fan which draws air from the room below and expels it through a series of openings at the top of the cylinder. The emergency damper is made in the form of a cone hung point downward at the upper end of the cylinder, with its base at the juncture of the cylinder and the conical roof. At the point of the damper cone is a cast fitting, through which passes with a sliding fit the vertical shaft 1¼ ins. in diameter, which is mounted at the axis of the cylinder. The damper cone is thus free to slide up or down in the cylinder, but it is held in the operating position by chains passing over small pulleys attached to the conical roof. In this position it acts as a deflecting plate to direct the air rising in the cylinder out through the openings.

One end of each chain is attached to the damper, while the other end, after passing over its pulley, is brought down to a point of attachment in the cylinder or in the room below. Fusible links are placed in the chains, and in case of fire the fusion of these links releases the chains, permitting the damper to drop down against a shoulder just below the outlet openings in the wall of the cylinder. This shuts off the escape of gases through the ventilator and prevents it from serving as a chimney for the fire.

For other Proposal Advertisements see pages
49, 50, 52, 54, 56
of Advertisements and Construction News, page 238

Proposal and Specifications for Water Turbine Vertical Triplex Pump Installation for Brandywine Pumping Station.

WATER DEPARTMENT.
Wilmington, Delaware.

Sealed proposals, endorsed "Proposals for Water Turbines and Triplex Pumps," will be received by the Board of Water Commissioners at the office of the Water Department, Sixteenth and French Streets, Wilmington, Delaware, until 10.30 a. m. on Monday, December 11th, 1911, for constructing and erecting on foundations built by the City, Water Turbines and vertical triplex single acting Power Pumps, consisting of two units, discharging 4 M.G. and 2 M.G., respectively; with Water Turbines discharging 80 and 40 M.G. under 19 feet head, at 78 R.P.M., respectively; the kind and amount of work to be done or furnished under said proposals to be in accordance with plans and specifications which may be seen at the office of the Chief Engineer of the Water Department, Sixteenth and French Streets, Wilmington, Delaware, to which reference is hereby made.

The contract for the doing of the work and the furnishing of all materials and supplies covered by such plans and specifications will be awarded to the lowest and best bidder, provided that the Board of Water Commissioners reserves the right to reject any or all bids. Each bidder must state in his proposal his full name and business address, and the name and business addresses of all persons interested with him. If no other person be so interested, he must distinctly state the fact; also that his proposal is made without any connection, directly or indirectly, with any other bidder for the work, particularly mentioned in his proposal, that it is in all respects without fraud or collusion, and that no person acting for, or employed by the "Mayor and Council of Wilmington" or any of its several Departments is directly or indirectly interested therein, or in the supplies or work to which it relates, or in any portion of the prospective profits thereof.

Each bid must be signed by the bidder and be accompanied by an undertaking signed by the persons offered by the bidder as his sureties, who must, in all cases, be resident freeholders of the City of Wilmington, or a thoroughly responsible surety company, which company or companies must be acceptable to the Board of Water Commissioners, declaring their consent to be such sureties in the event of the contract being awarded to such bidder; and if any contract be so awarded, and such bidder shall fail to complete the execution of a contract therefor with security for its performance approved by the said Board, such bidder and the party or parties, company or companies so undertaking for him, as aforesaid, shall be liable to pay to the City of Wilmington any damage that may be occasioned to said City by such failure.

A bond in the sum of 50 per cent. of the contract price with a satisfactory surety company through a legally constituted agency in Wilmington, Delaware, will be required for the faithful performance of the work, said bond to remain in force for one year after the final construction, erection and acceptance of the Water Turbines and Triplex Pumps, respectively.

No permission will be given for the withdrawal of any proposal.

The printed form of proposal attached to specifications shall be used in making out bid. The price must be written in the proposal and also stated in figures, and any proposal not in accordance with these instructions or not on the blanks furnished may be rejected. No proposal will be received from any contractor unless known to be skilled and regularly engaged in work of a similar nature to that covered by this contract. While separate prices are required for various items under this contract it is to be understood that the contract may be awarded in part to any bidder for Water Wheels or Triplex Pumps, respectively.

Plans and specifications may be seen, and forms of proposals and contracts may be obtained at the office of the Chief Engineer of the Water Department, Sixteenth and French Streets, Wilmington, Delaware. Copies of the specifications and plans may be obtained upon making a deposit of $10.00, said deposit to be returned upon return of the plans and specifications.

By order of
Board of Water Commissioners,
JOHN A. KIENLE,
Chief Engineer.

BRIDGE.

Fulton, N. Y.

Sealed proposals will be received by the Board of Public Works of Fulton, N. Y., until 8 P. M., of Monday, December 18th, 1911, for the construction of a concrete steel bridge across the Oswego River at Broadway, in the City of Fulton, N. Y., according to the plans and specifications prepared by the Concrete Steel Engineering Company of New York City.

Each proposal must be accompanied by a certified check on a National bank, payable to the order of the City Chamberlain of the City of Fulton, N. Y., for $7,500, or currency for that amount (without conditions or endorsements of any kind) as evidence of good faith. The successful bidder will be required to furnish a bond acceptable to the Board of Public Works in the sum of 50% of the contract price.

Plans are on file in the office of the City Engineer of Fulton, N. Y. Plans and specifications may be obtained from the City Engineer or the Concrete Steel Engineering Co., Park Row Bldg., New York City. A deposit of $25 for each set of plans and specifications will be required.

The right is reserved to reject any or all bids.

J. A. FOSTER,
President, Board of Public Works.
JOSEPH H. CONNERS, Mayor.

TREASURY DEPARTMENT, Office of the Supervising Architect, Washington, D. C., November 21, 1911.—Sealed proposals will be received at this office until 3 o'clock p. m. on the 27th day of December, 1911, and then opened, for the installation of a heating and ventilating apparatus, etc., for the United States post-office and custom-house building at San Diego, Cal., in accordance with the drawings and specifications therefor, copies of which may be had at this office or at the office of the superintendent of construction at San Diego, Cal., at the discretion of the Supervising Architect. JAMES KNOX TAYLOR, Supervising Architect.

"WANT"
Advertisements in ENGINEERING NEWS cost 1½ cents a word an insertion for "Situations Wanted" and 3 cents a word for "Situations Open" and "Miscellaneous Wants." Read them weekly—they will help you.